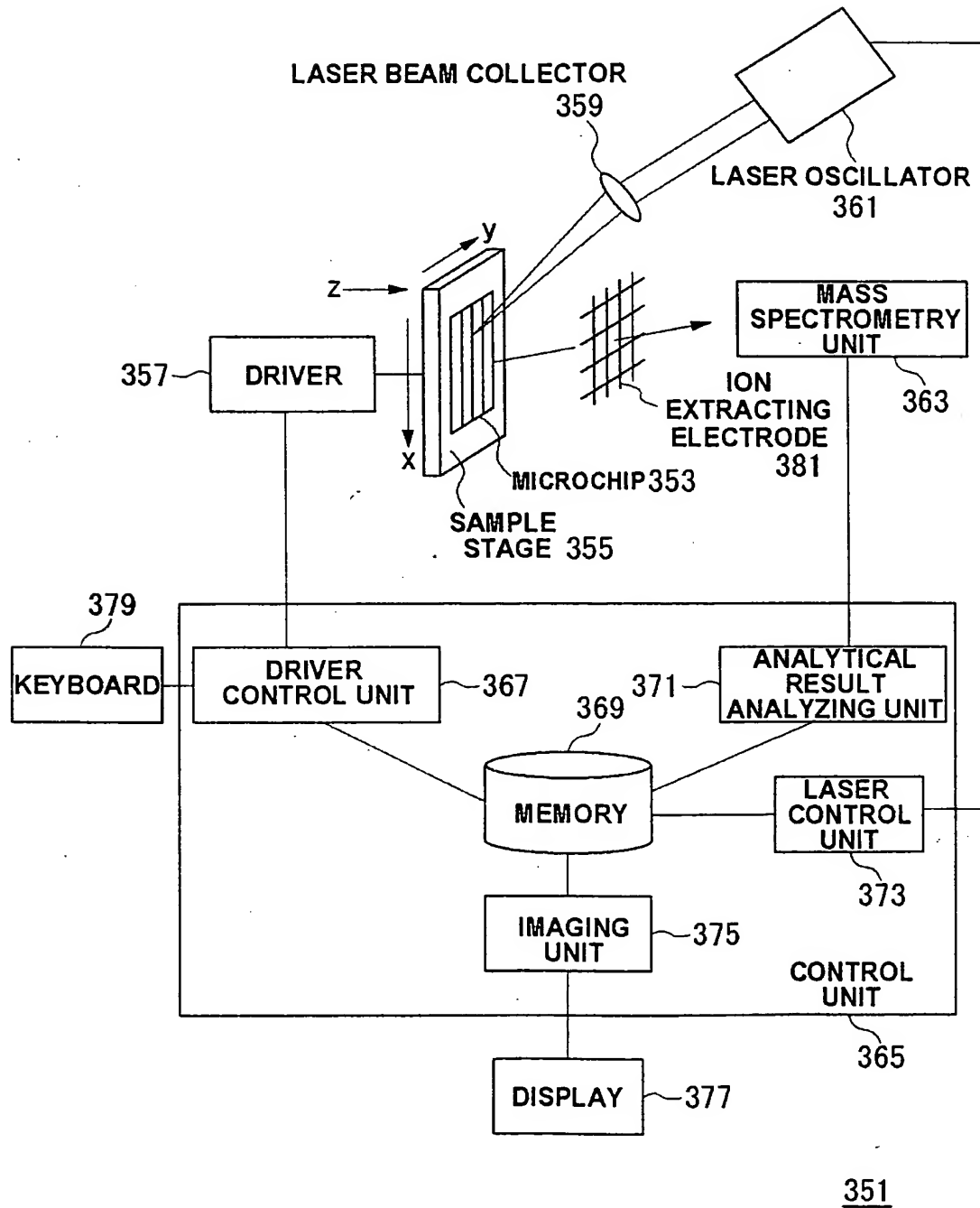


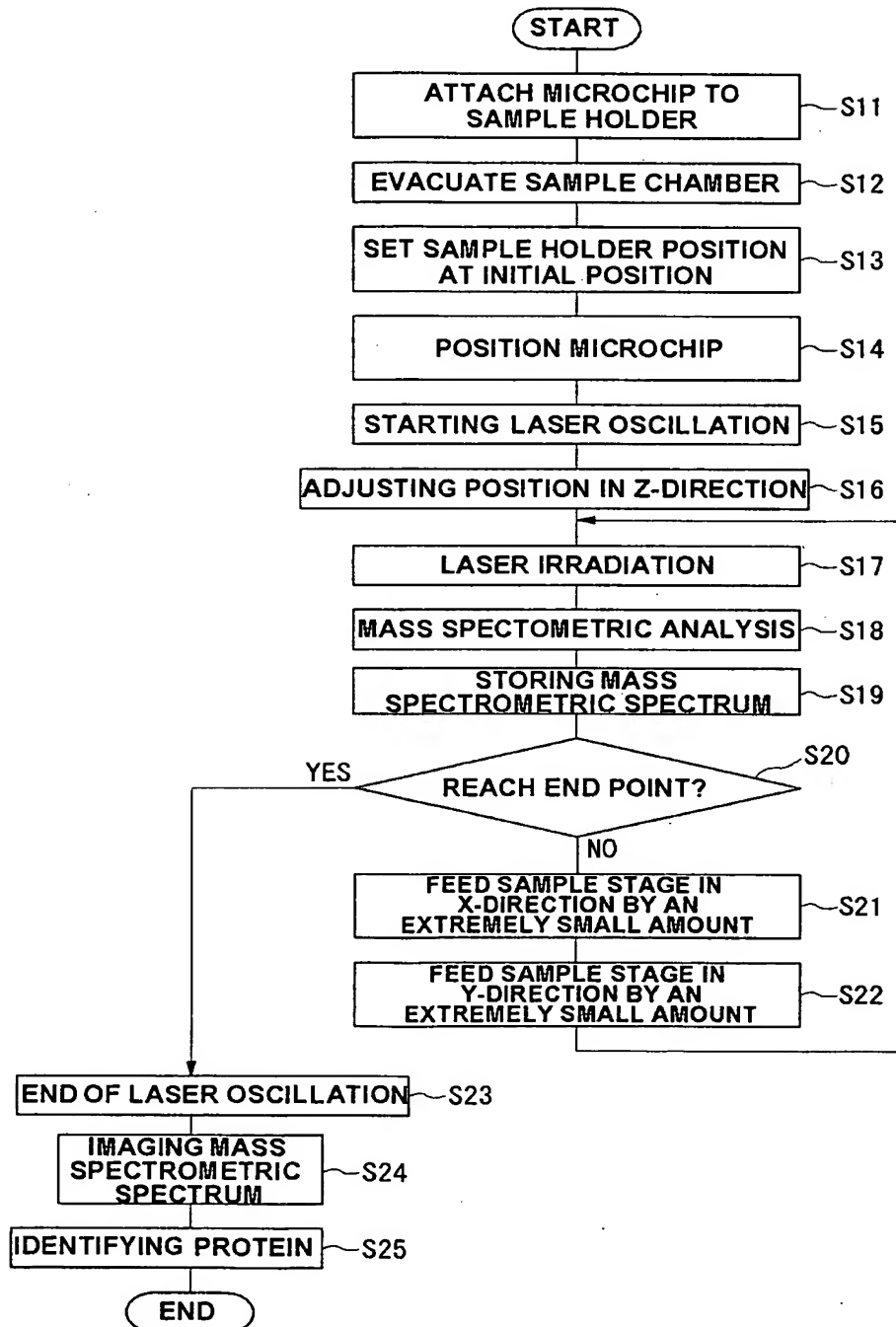
1 / 87

Fig.1



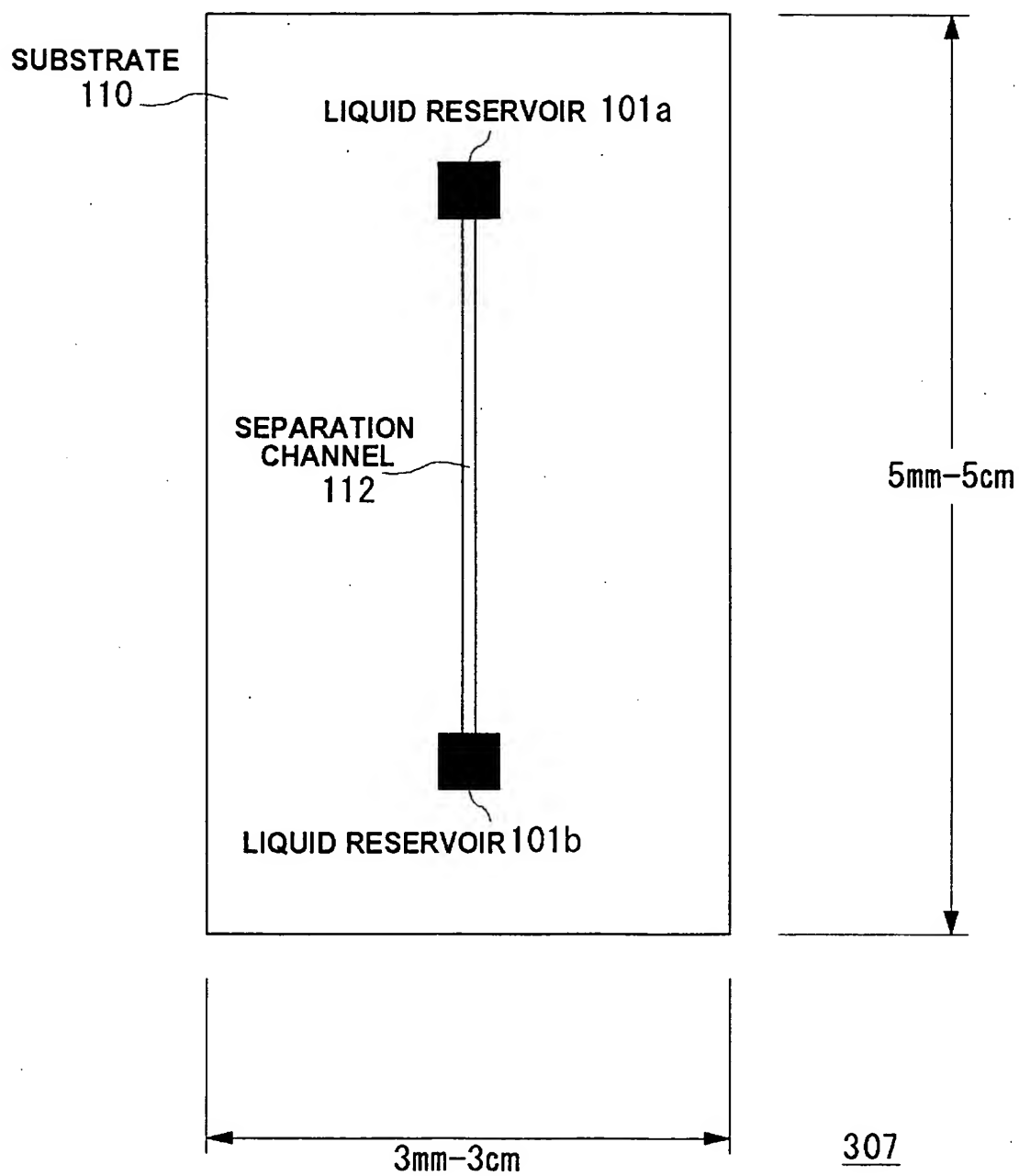
2 / 87

Fig.2



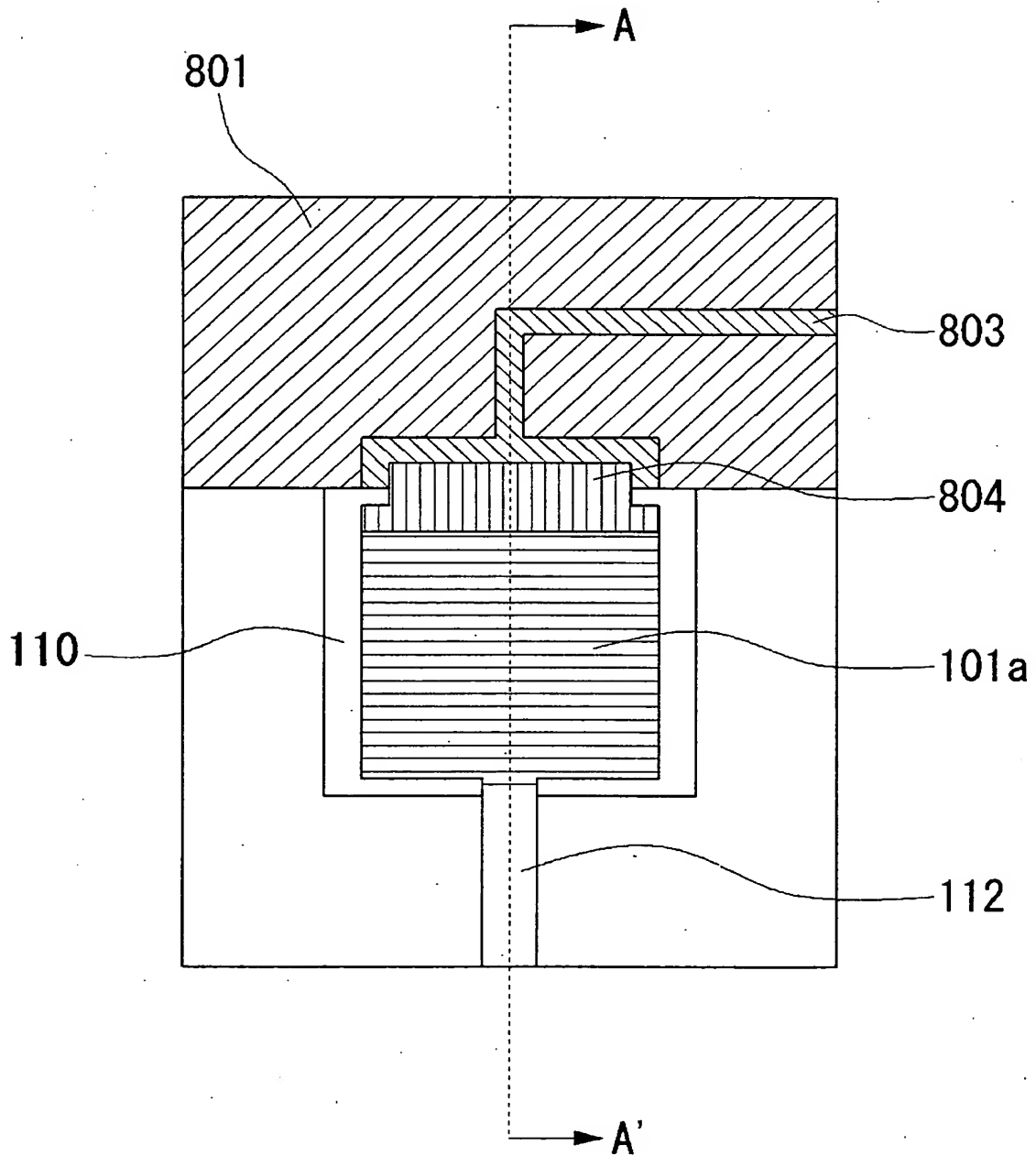
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Fig.3



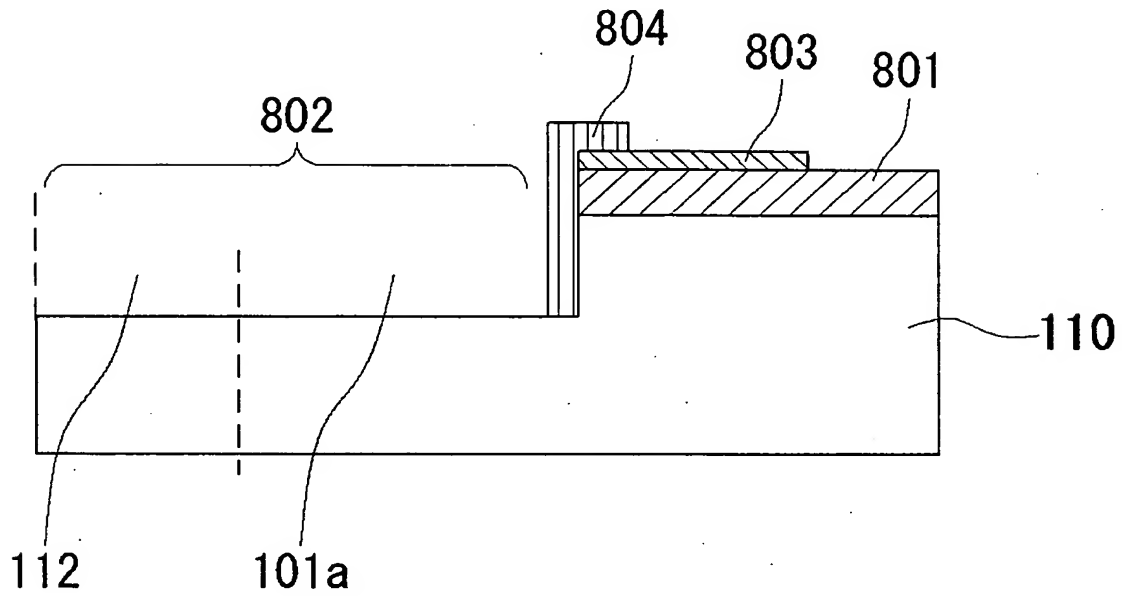
4 / 87

Fig.4



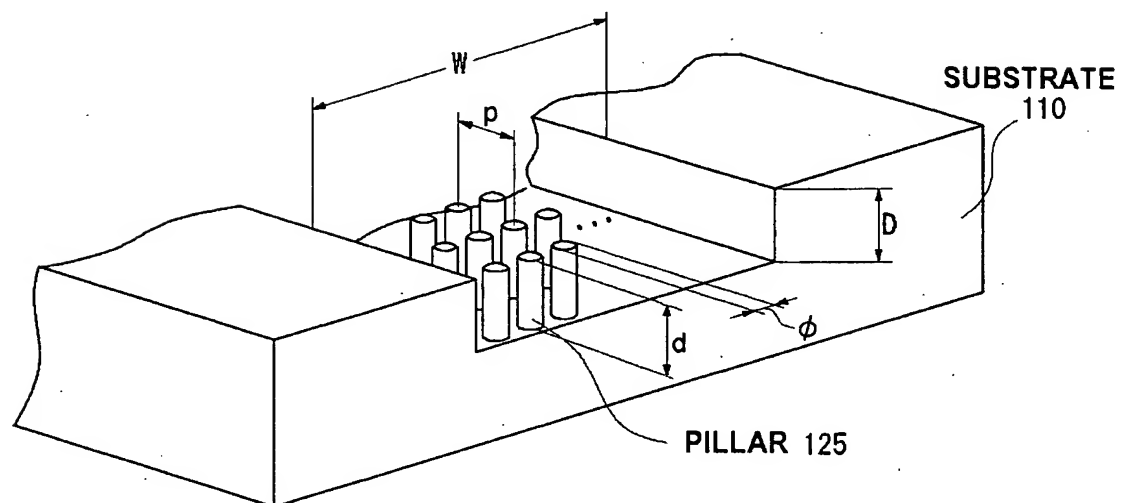
5 / 87

Fig.5



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Fig.6



W	$10 \sim 2000 \mu\text{m}$
D	$50\text{nm} \sim 3 \mu\text{m}$
ϕ	$10 \sim 100\text{nm}$
d	$10\text{nm} \sim 3 \mu\text{m}$
p	$1\text{nm} \sim 10 \mu\text{m}$

Fig.7

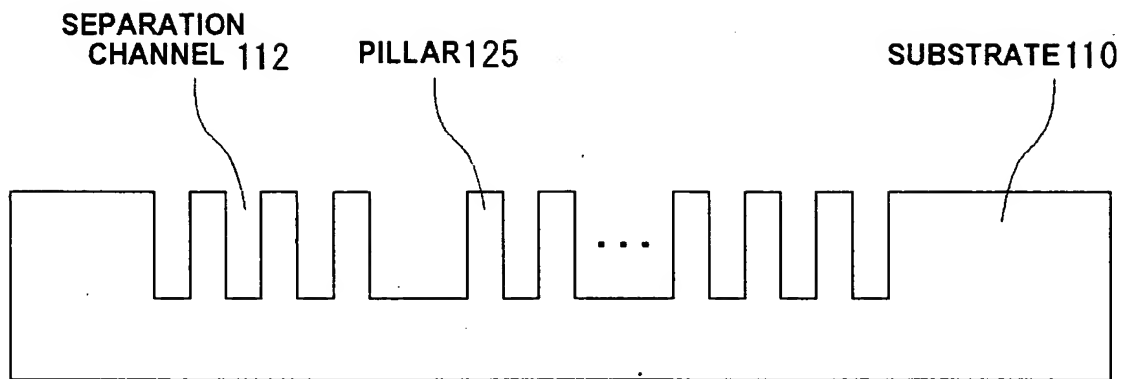


Fig.8

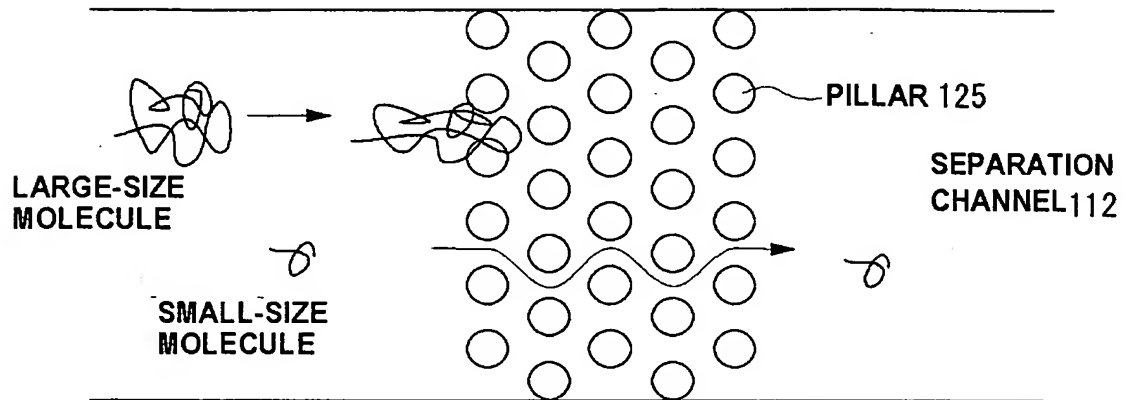
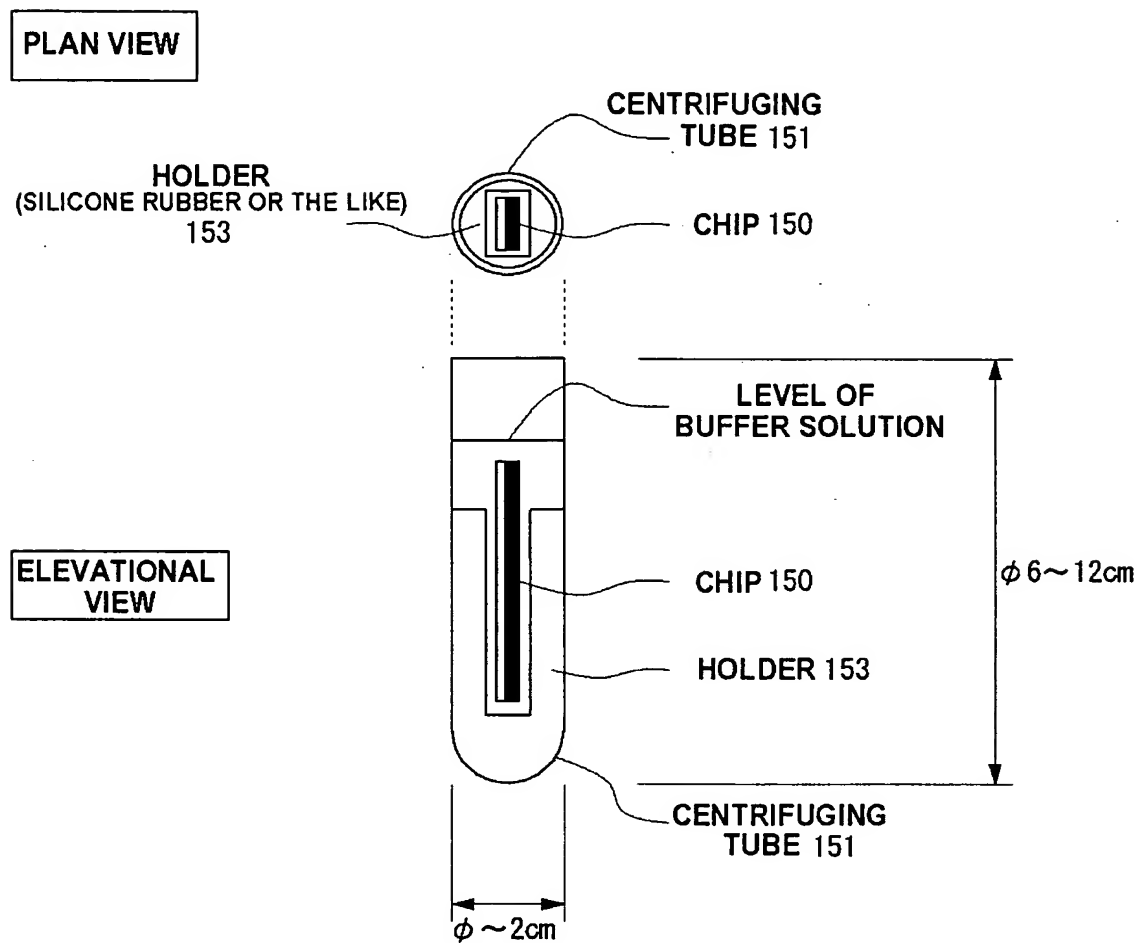
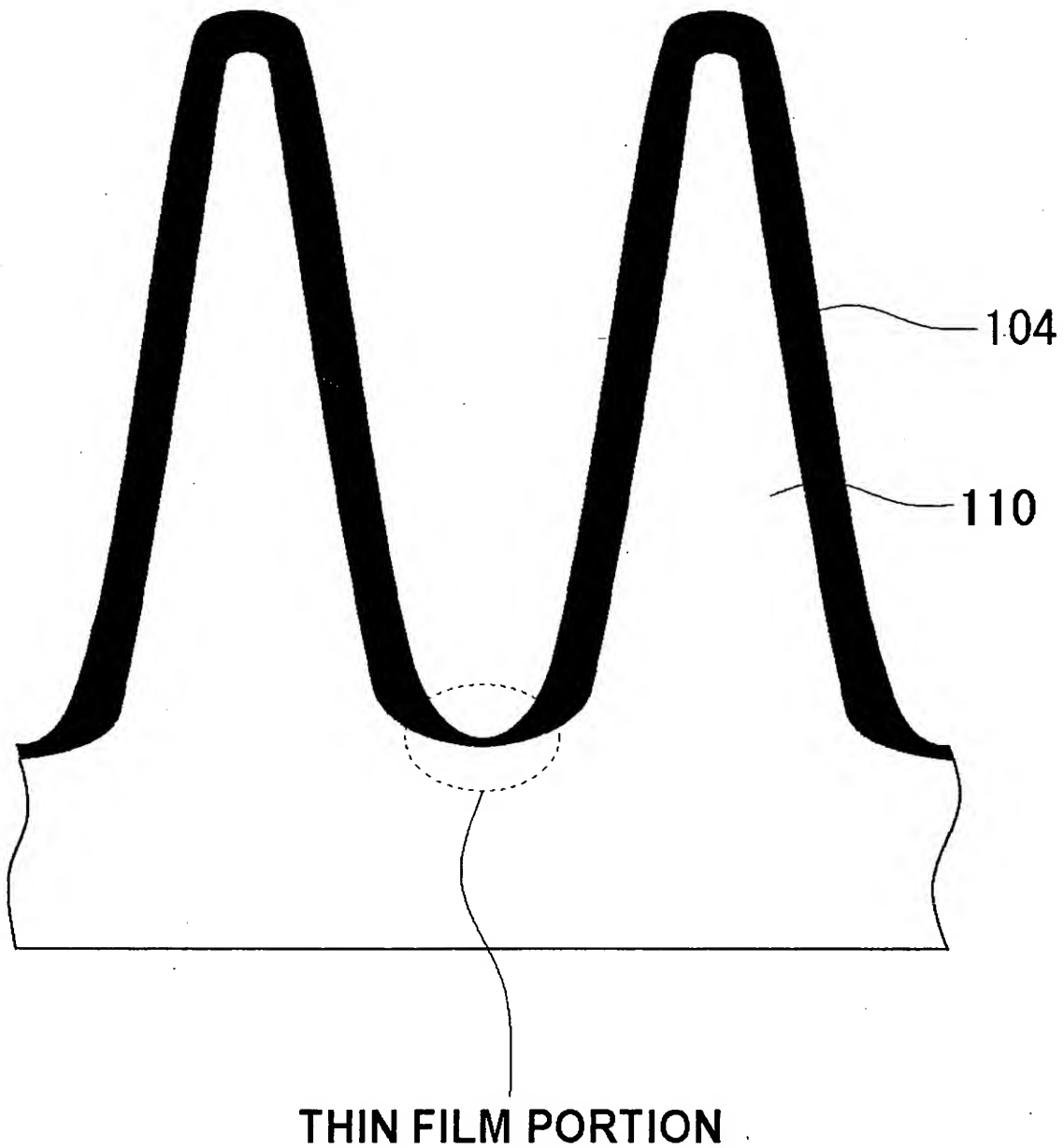


Fig.9



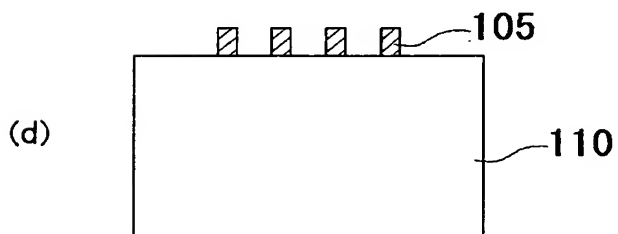
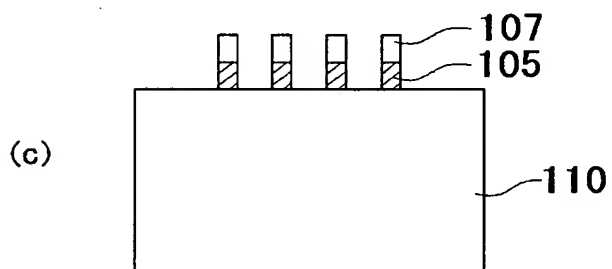
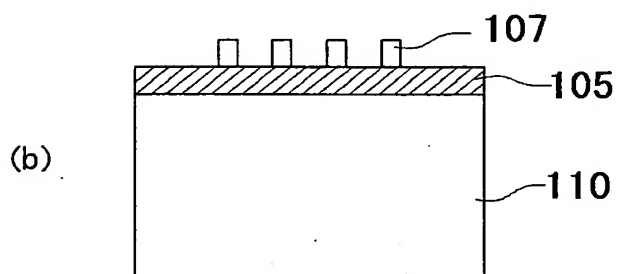
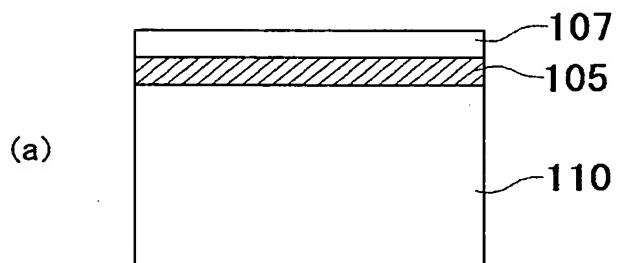
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Fig.10



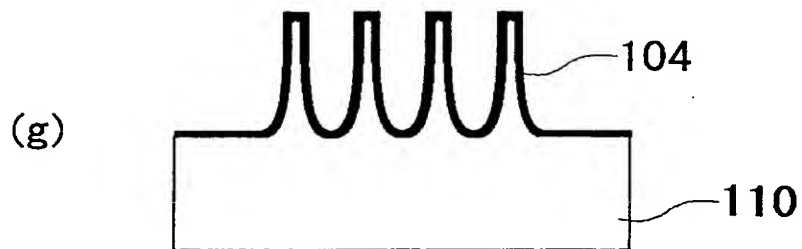
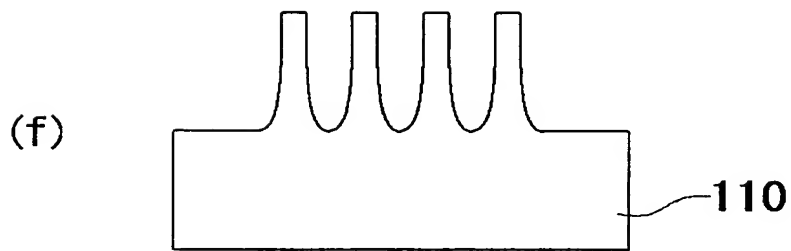
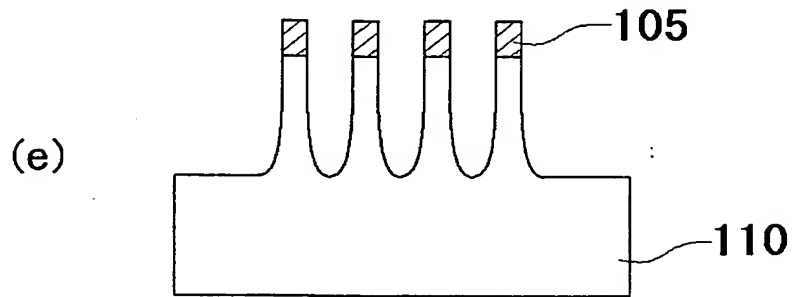
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Fig.11



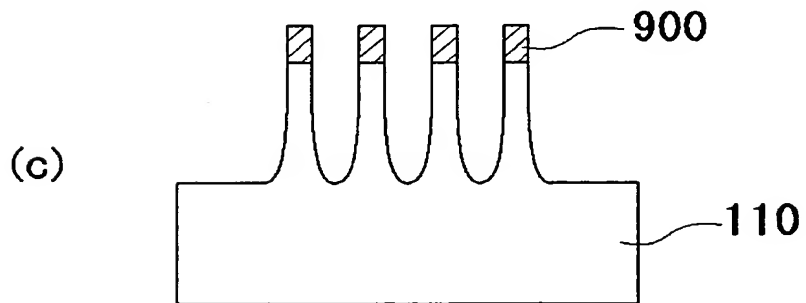
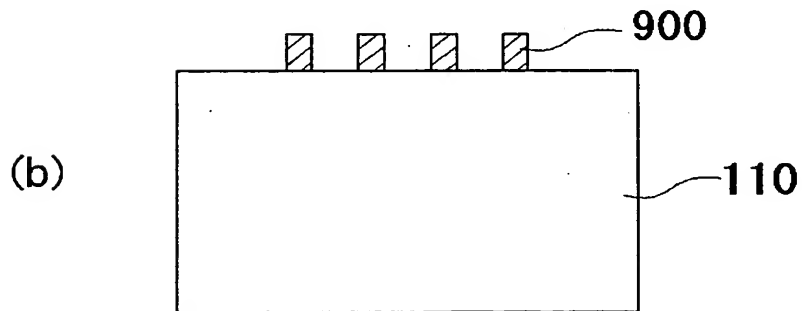
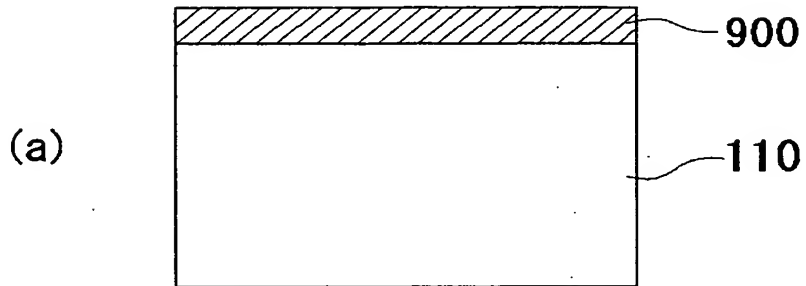
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Fig.12



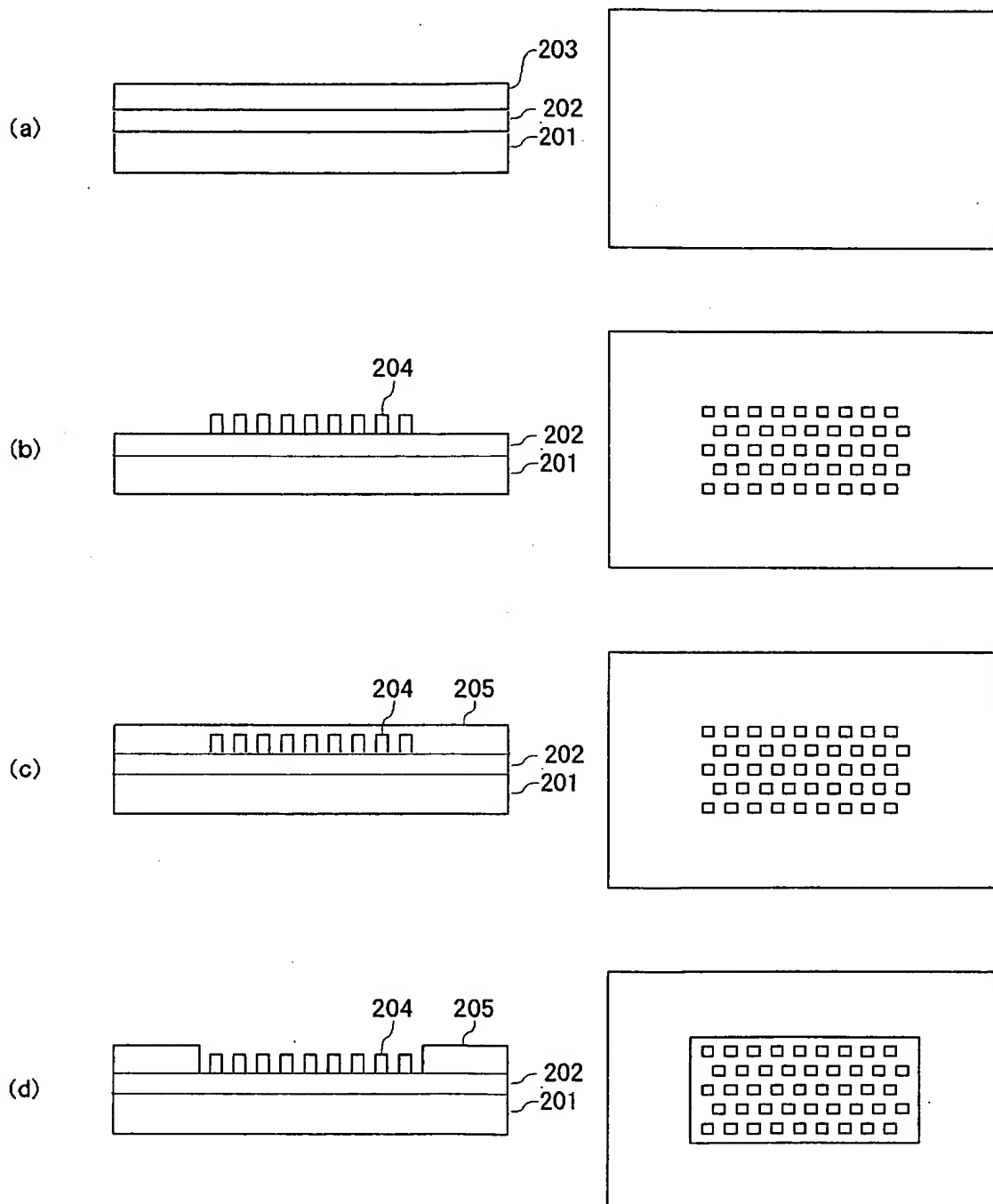
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Fig.13



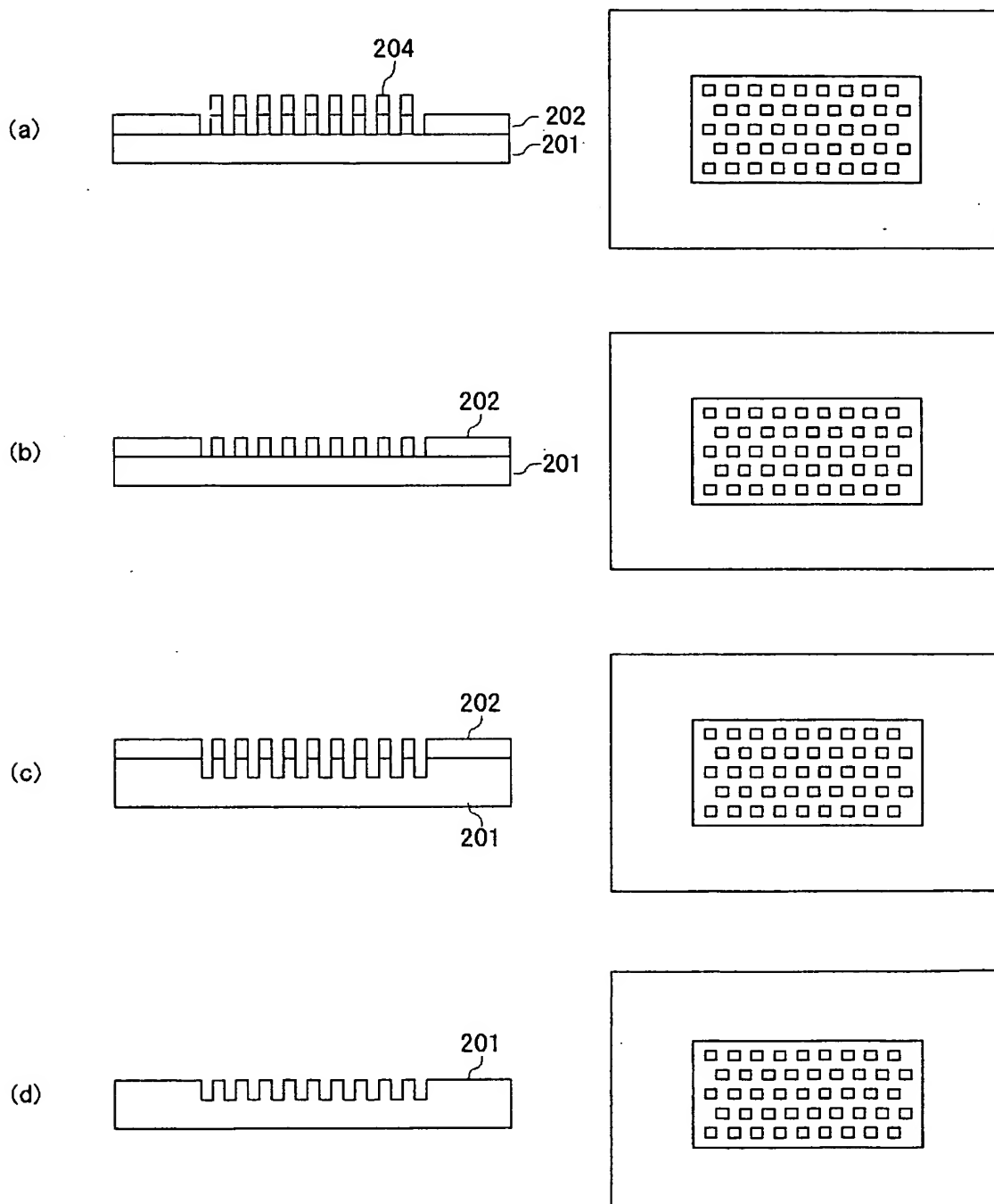
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Fig.14



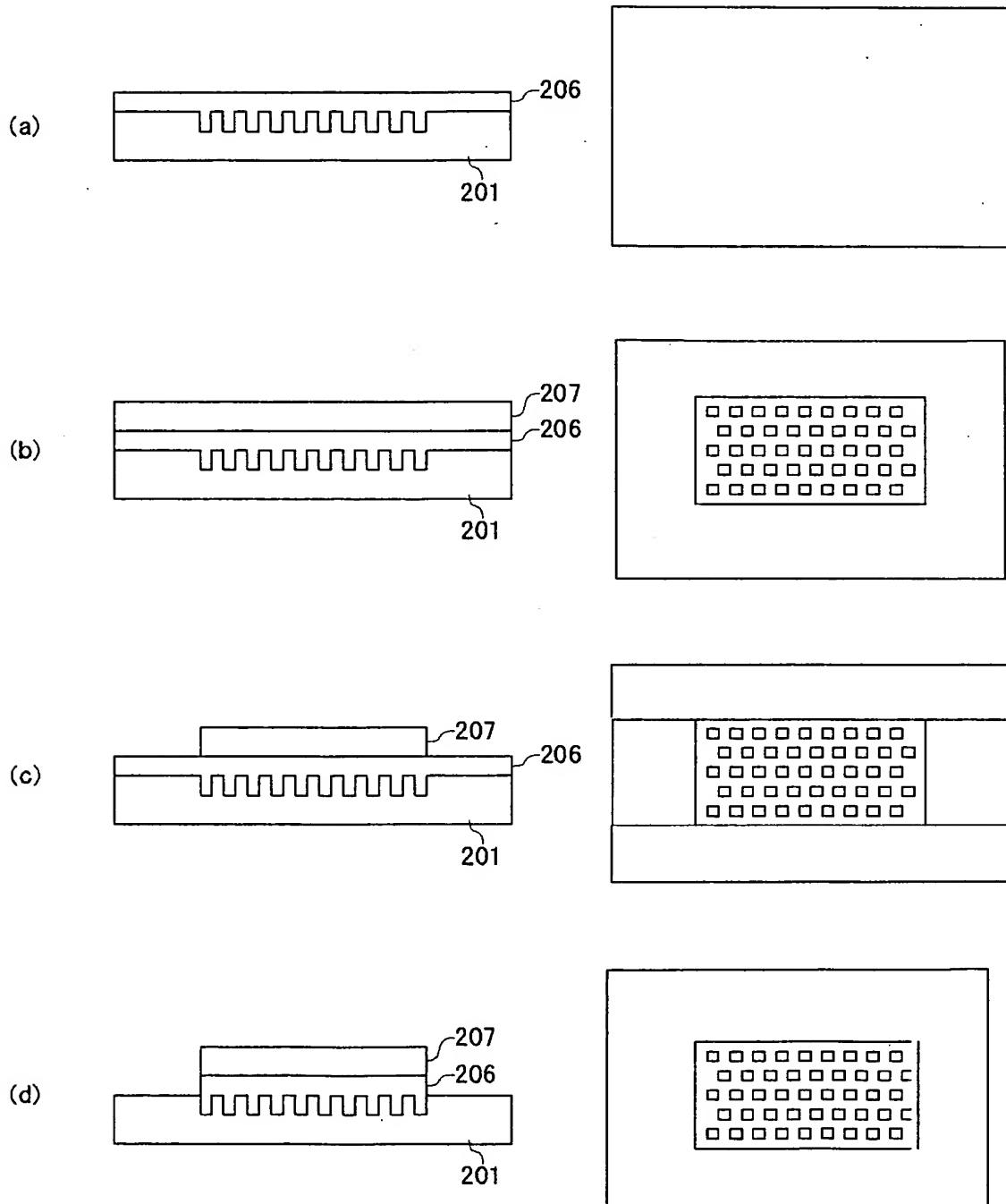
15 / 87

Fig.15



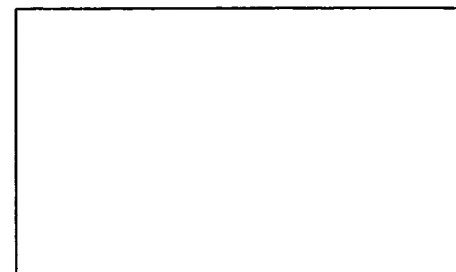
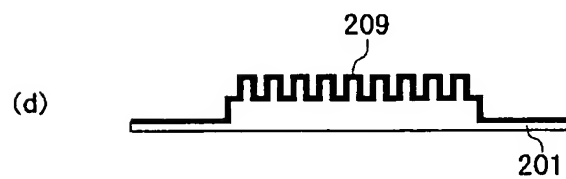
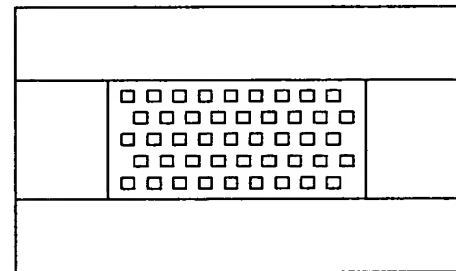
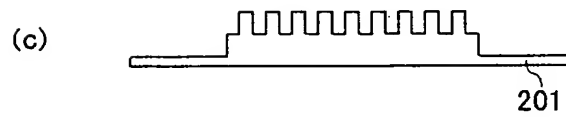
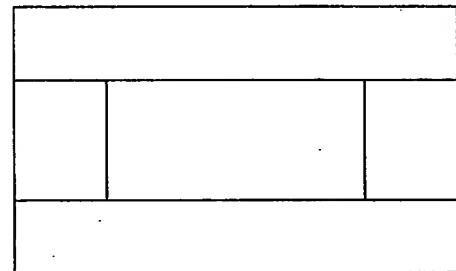
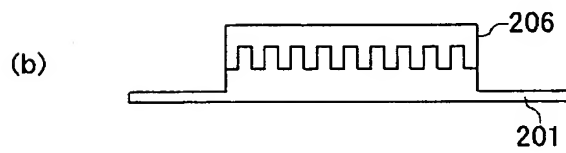
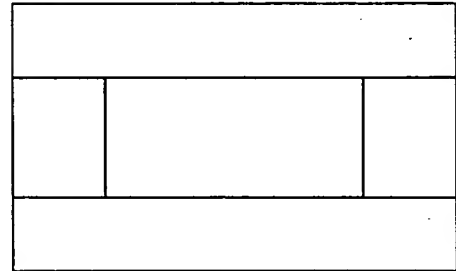
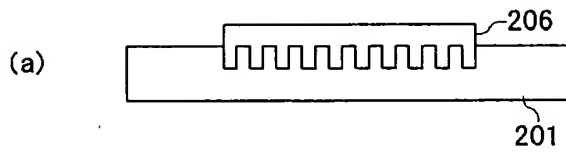
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Fig.16



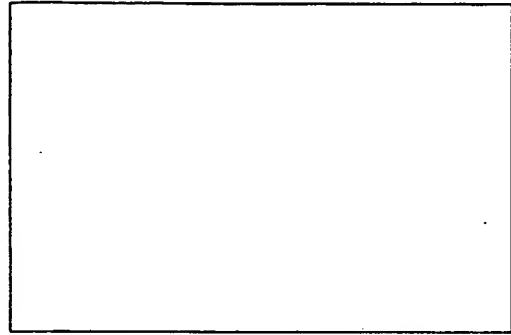
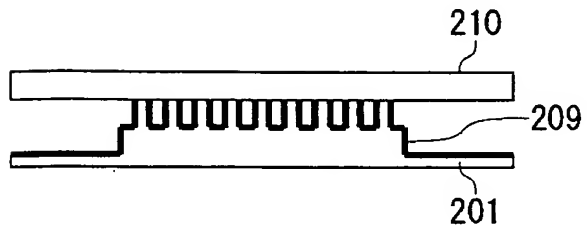
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Fig.17



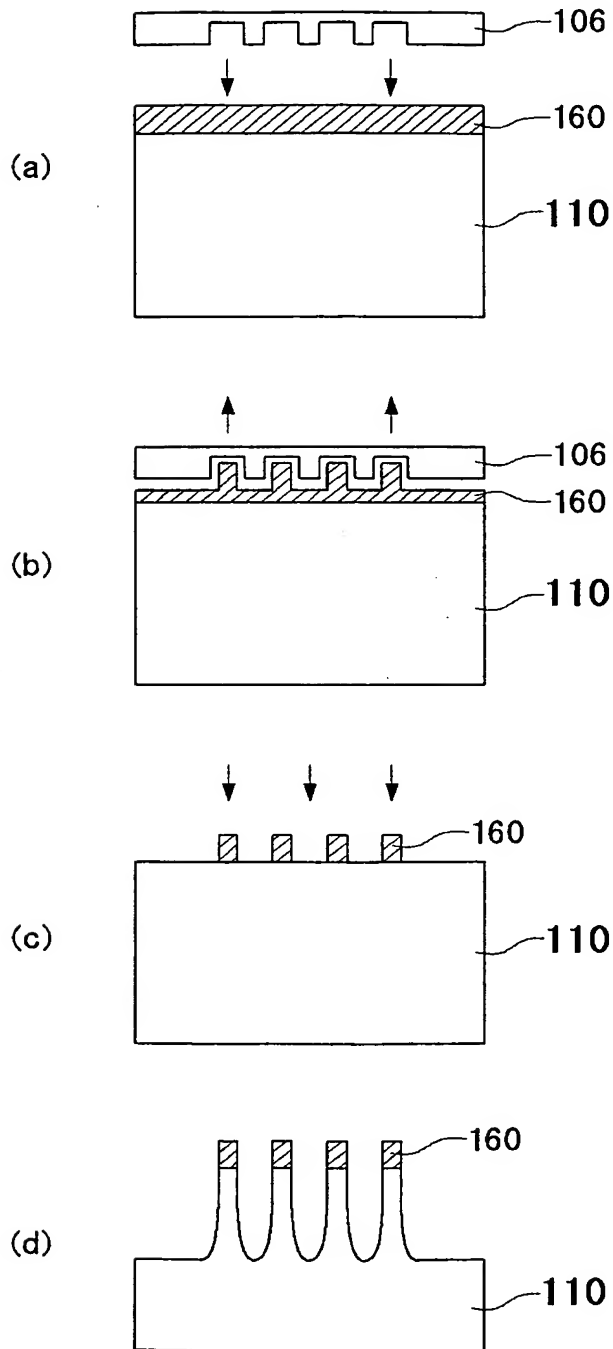
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Fig.18



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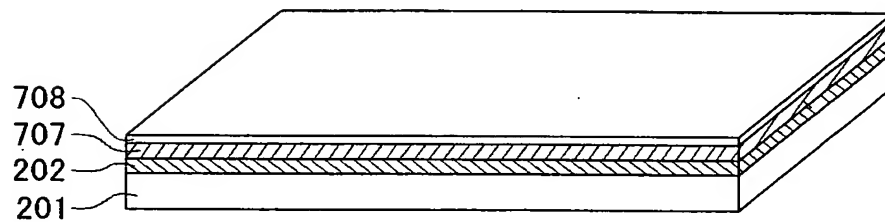
Fig.19



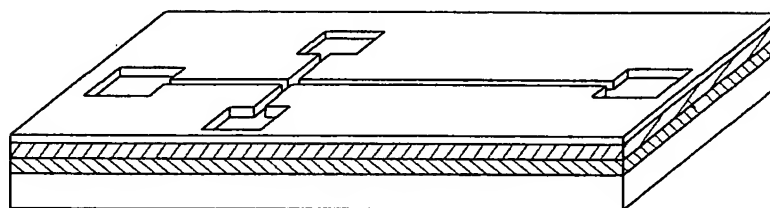
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Fig.20

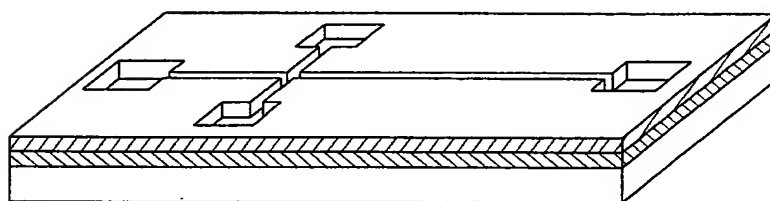
(a)



(b)



(c)



(d)

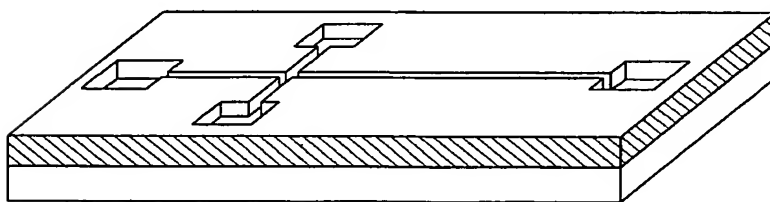
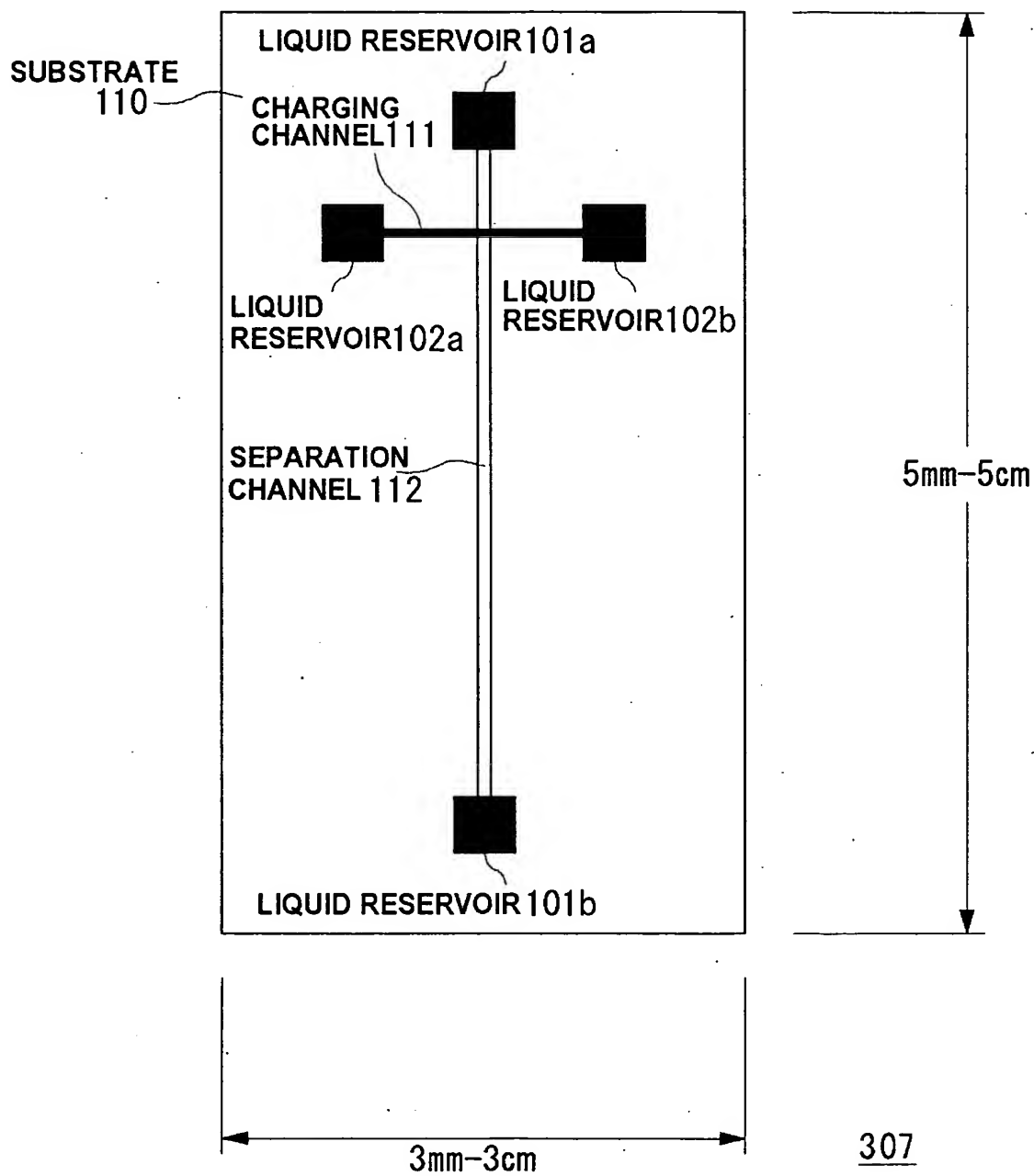
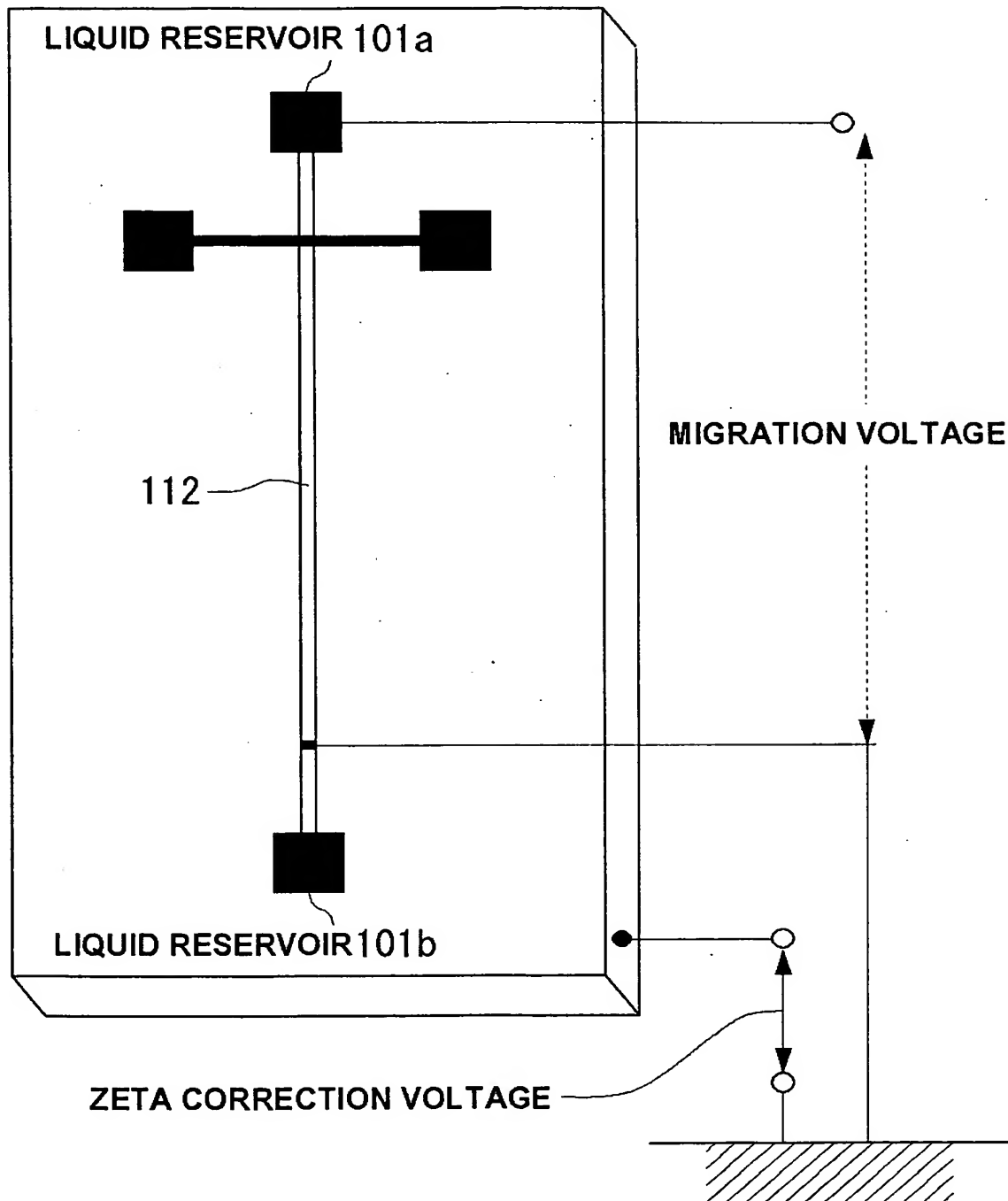


Fig.21



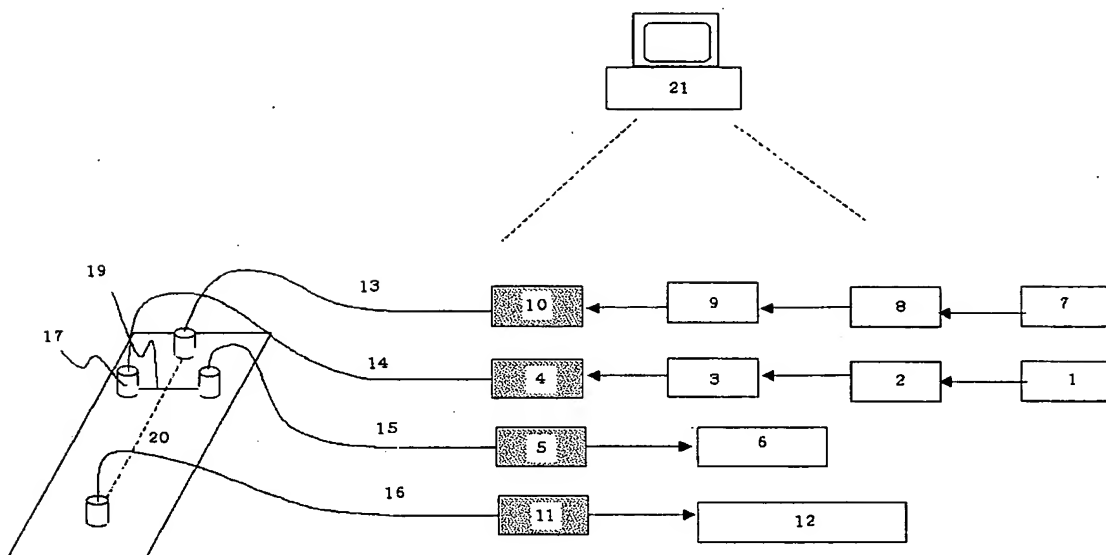
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Fig.22



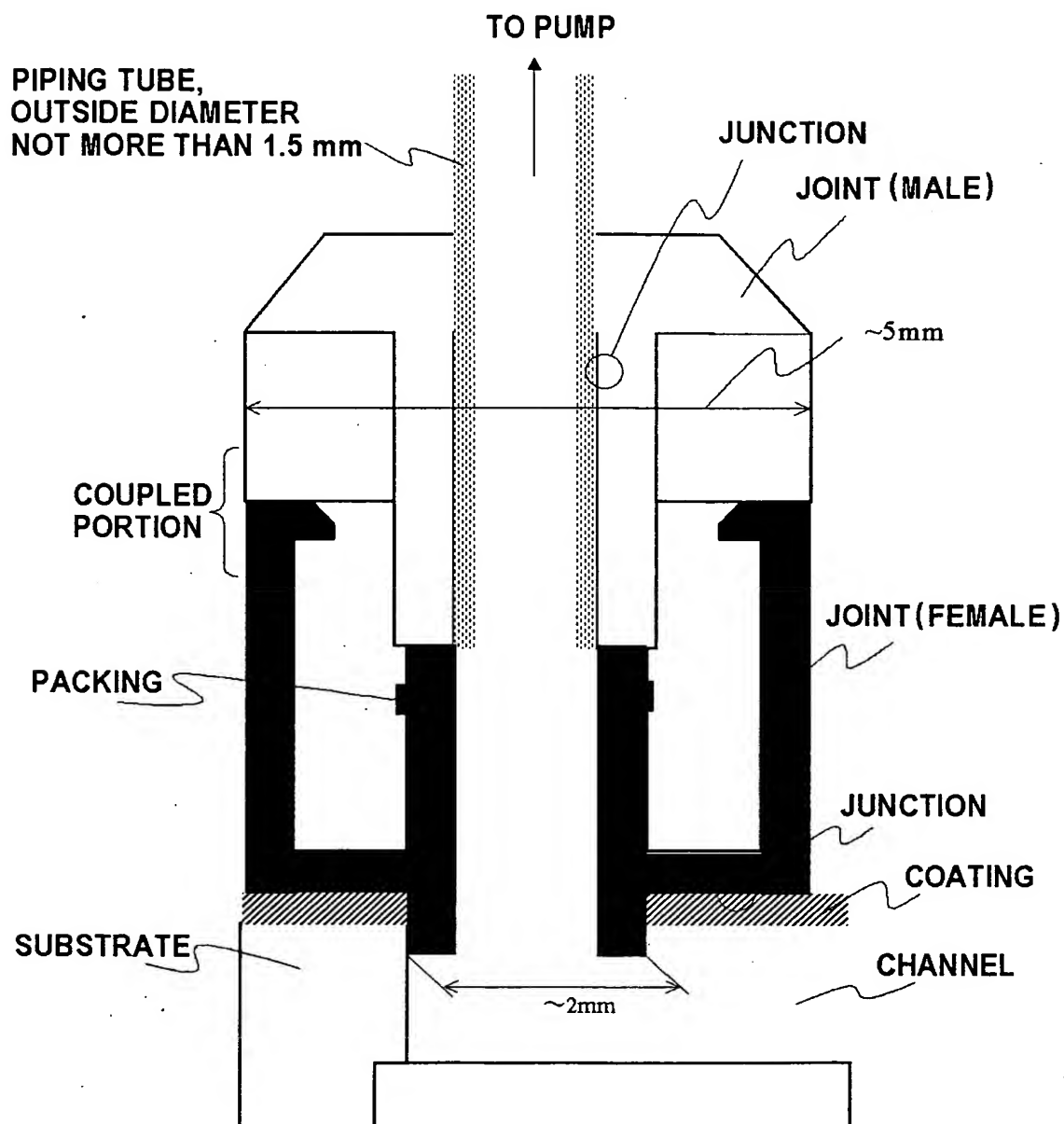
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Fig.23



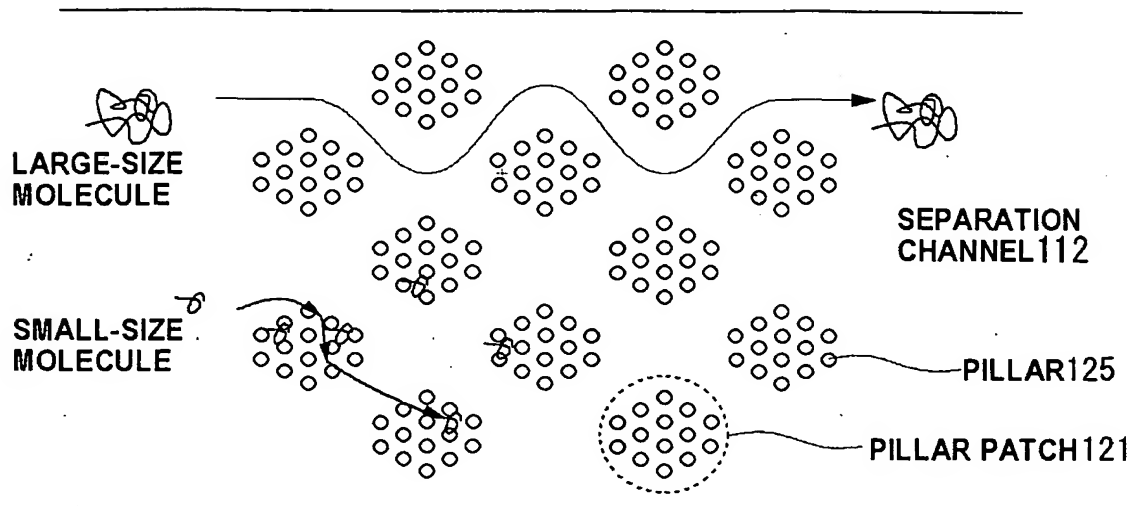
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Fig.24



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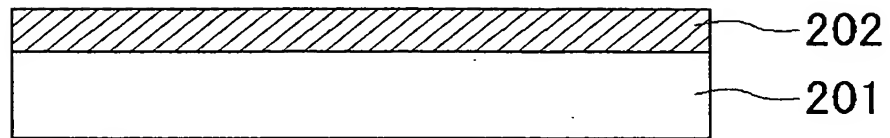
Fig.25



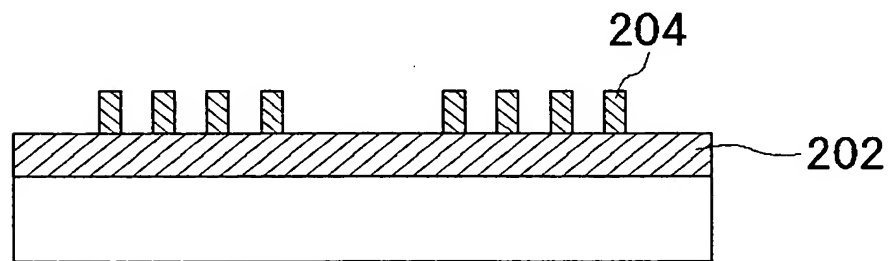
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Fig.26

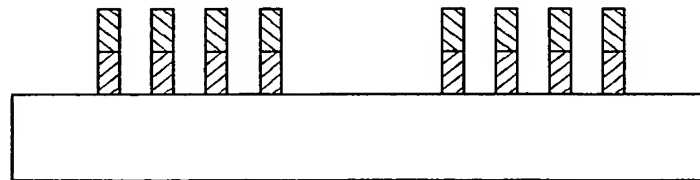
(a)



(b)



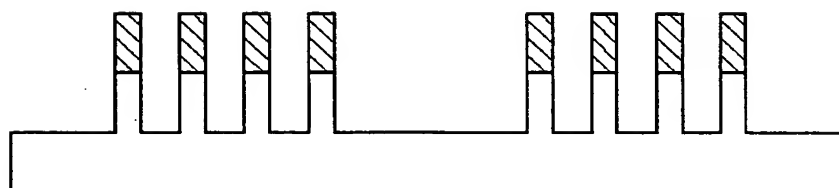
(c)



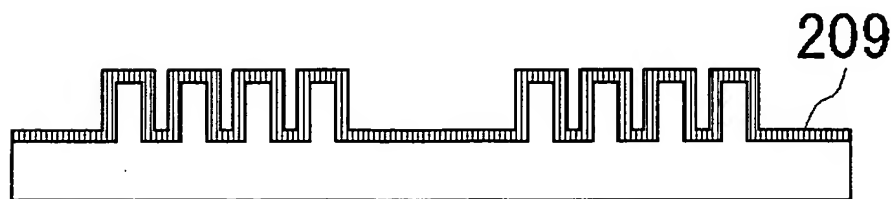
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Fig.27

(d)



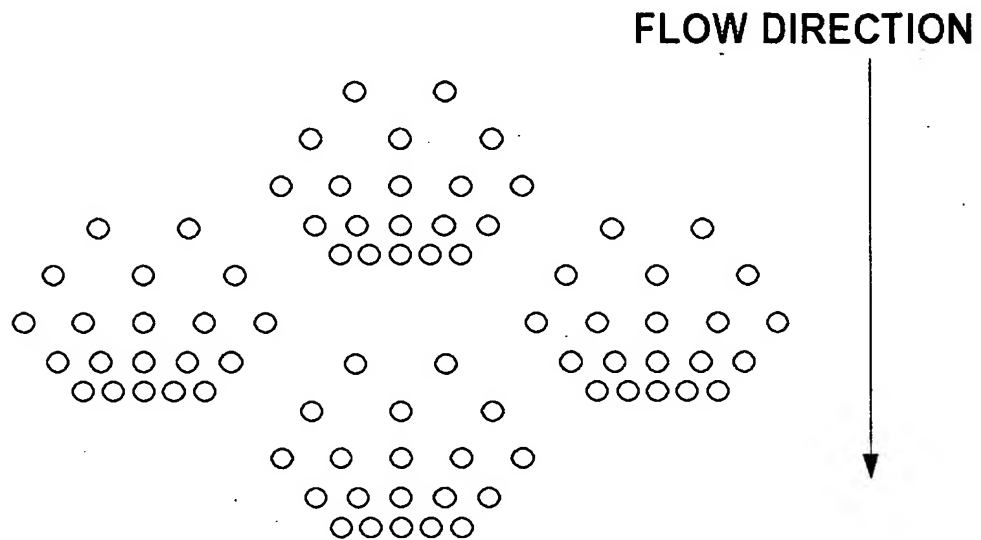
(e)



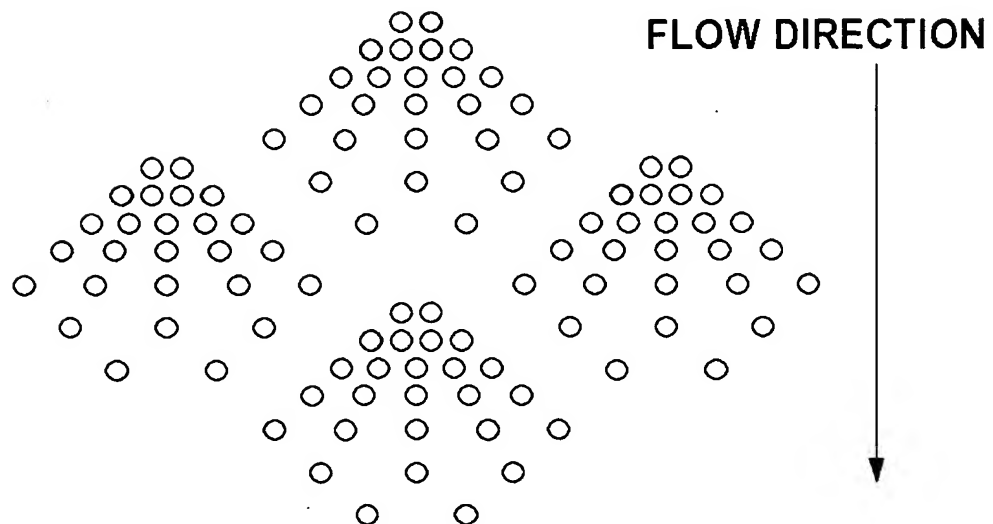
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Fig.28

(a)

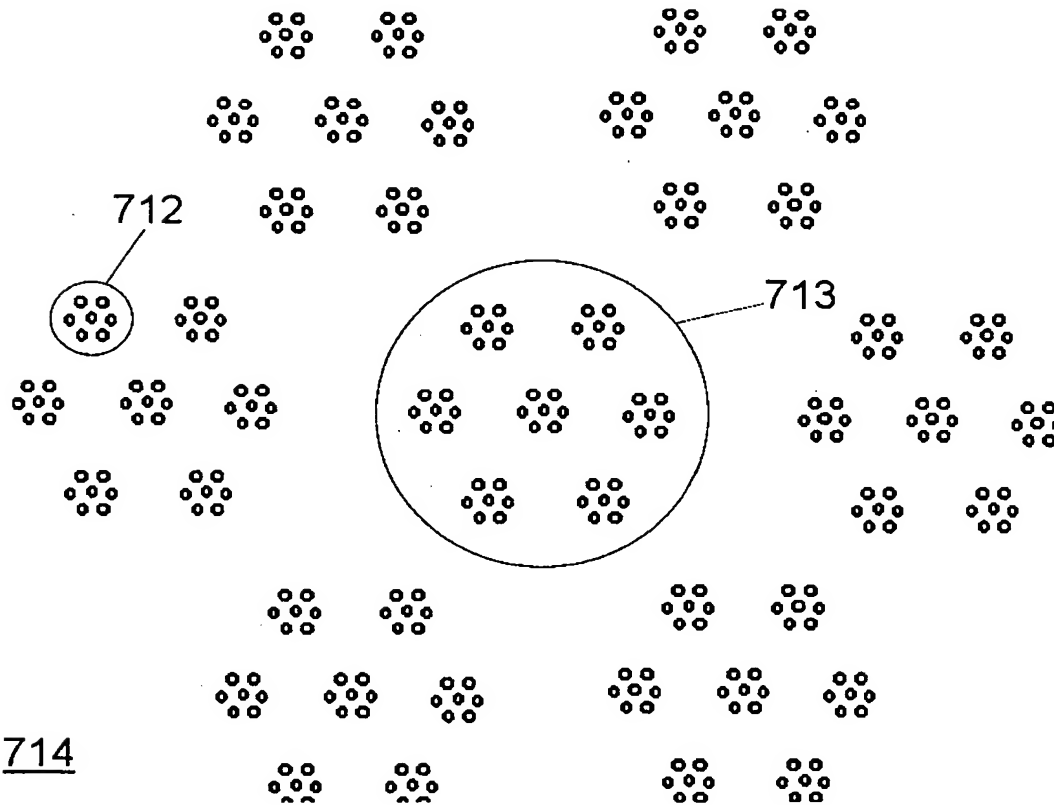


(b)



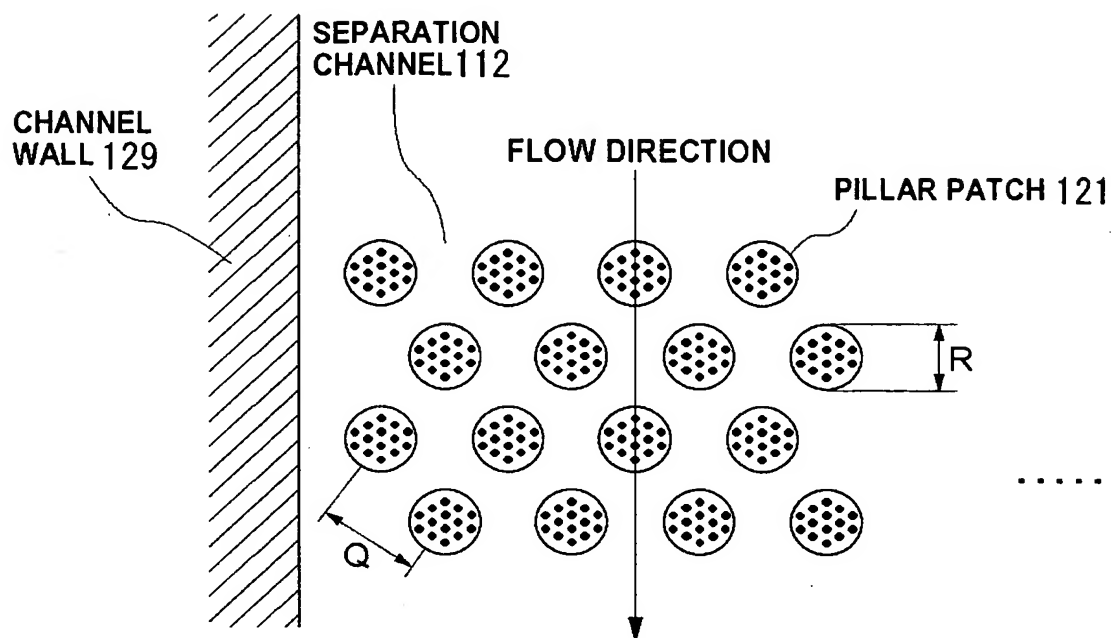
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Fig.29



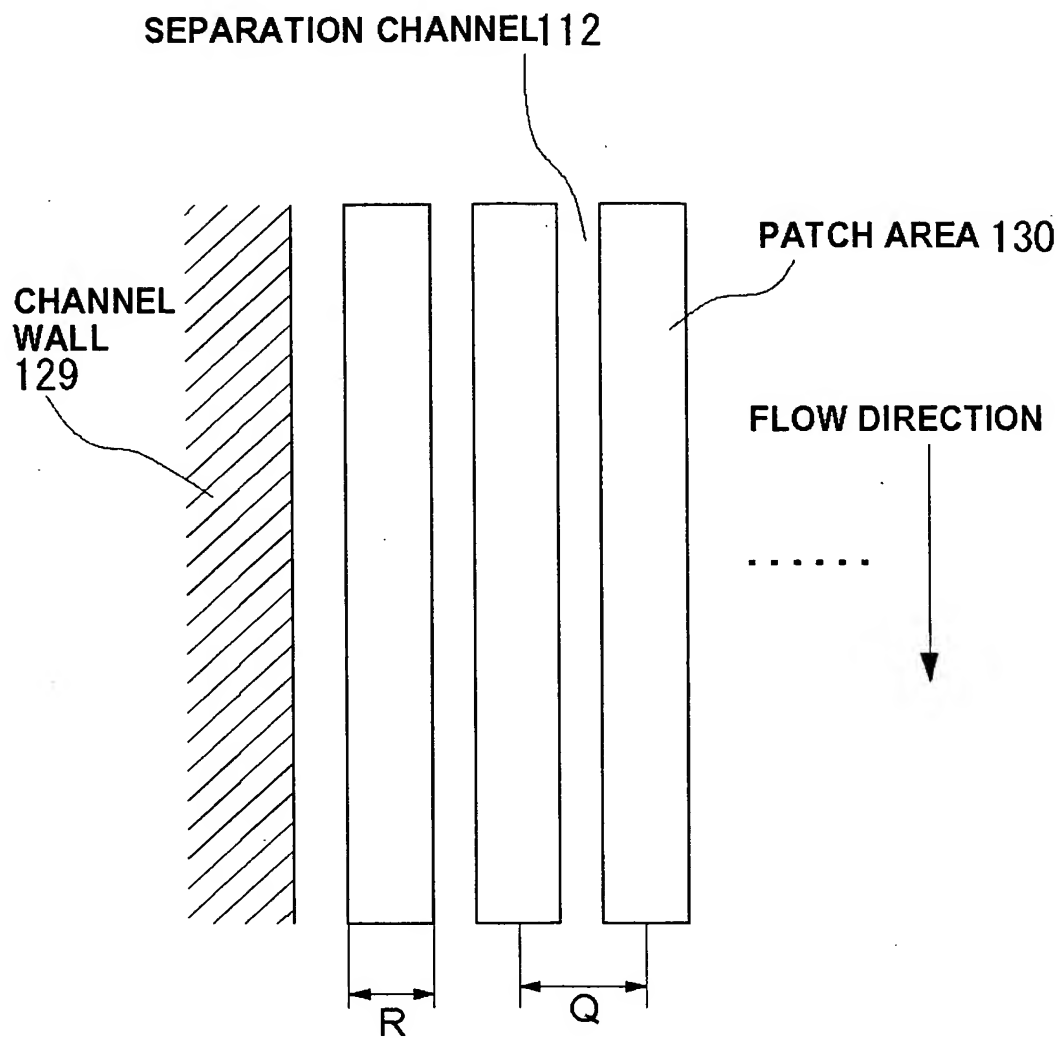
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Fig.30



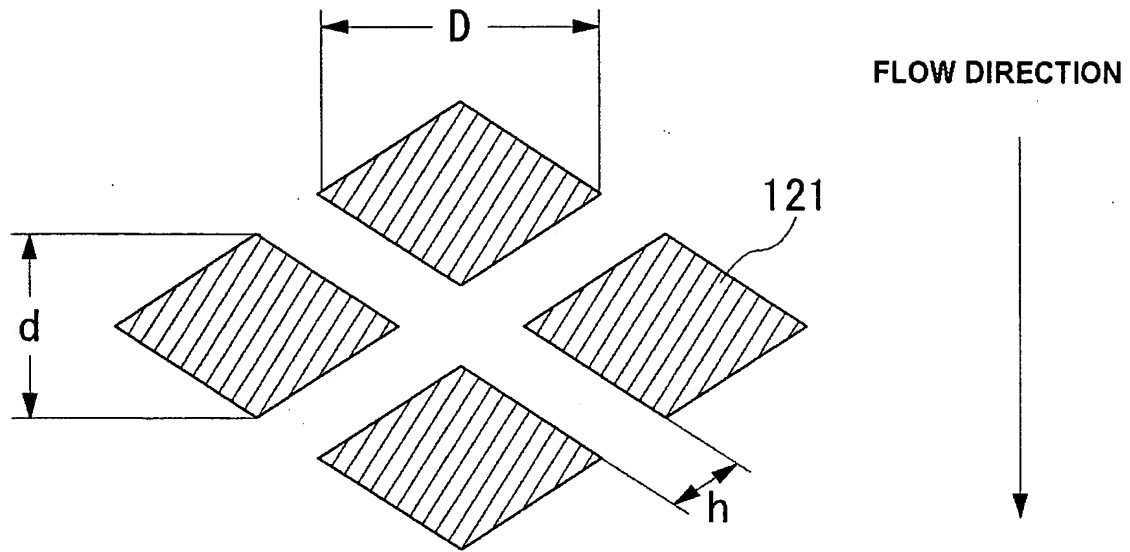
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Fig.31



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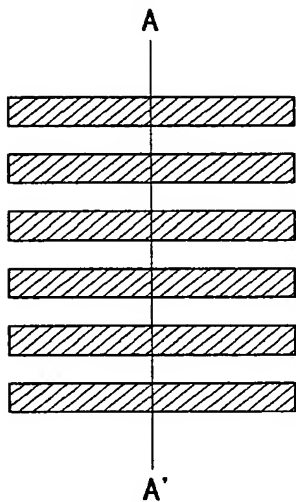
Fig.32



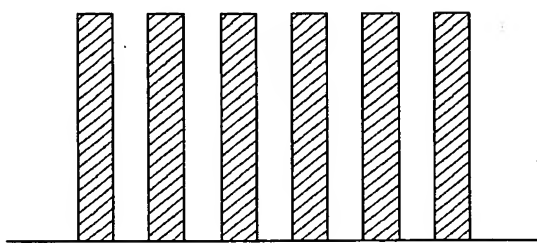
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Fig.33

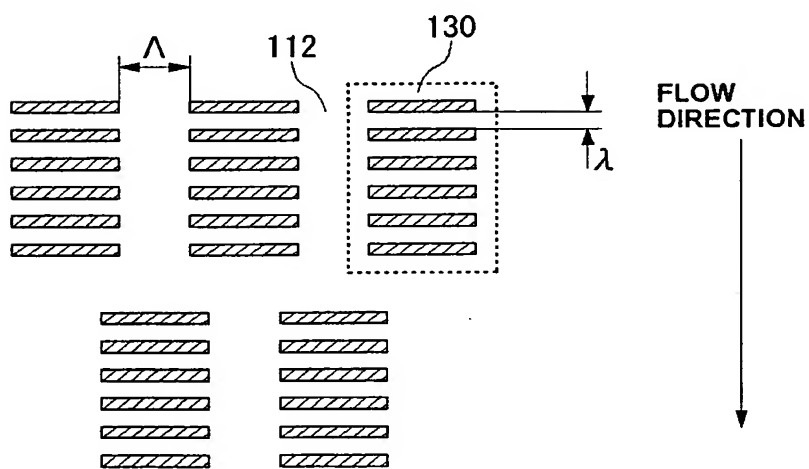
(a)



(b)



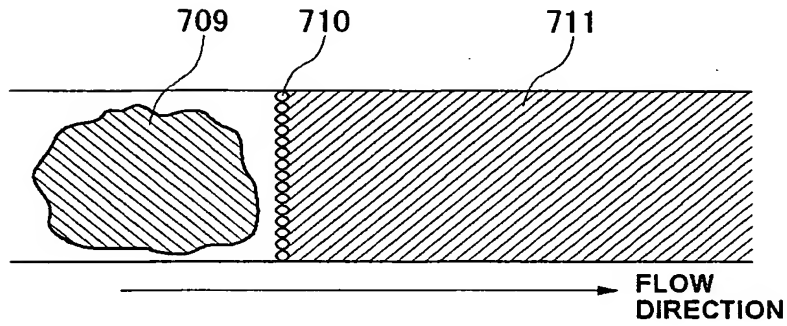
(c)



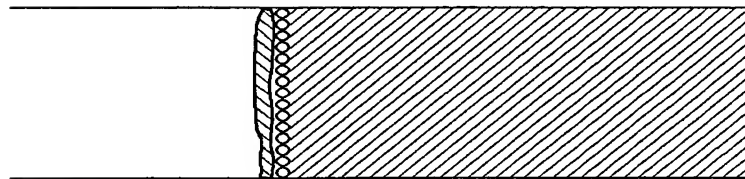
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Fig.34

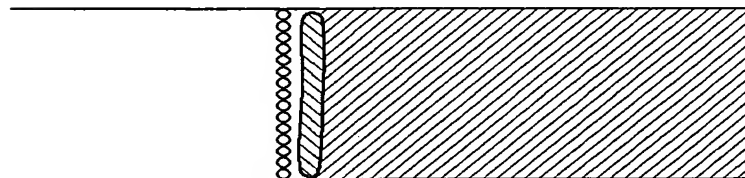
(a)



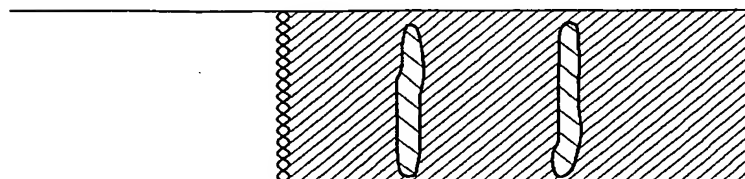
(b)



(c)

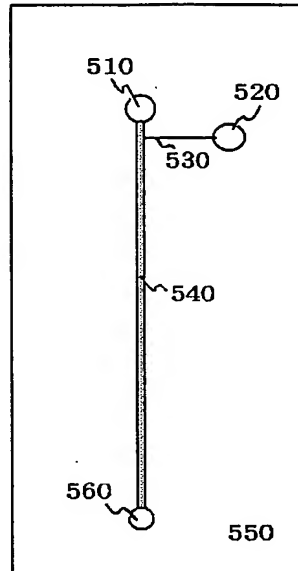


(d)



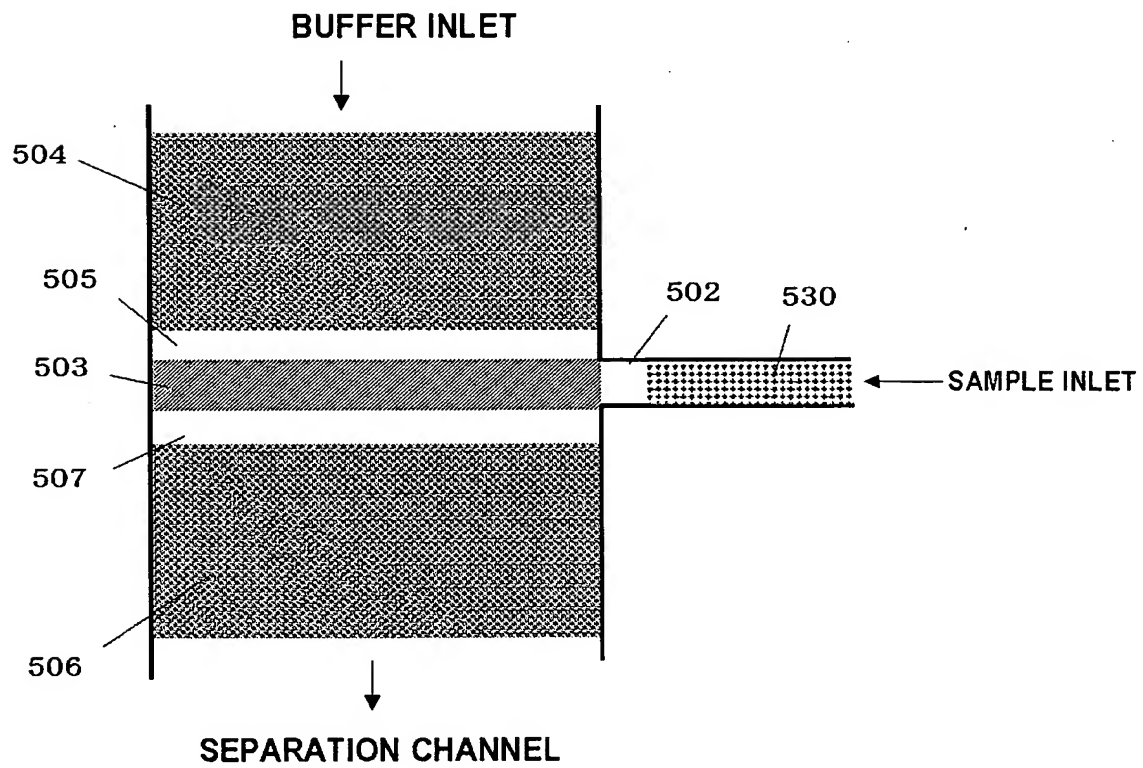
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Fig.35



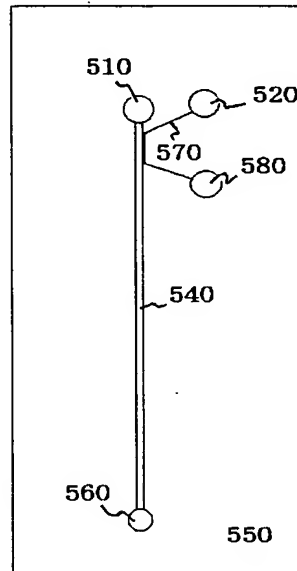
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Fig.36



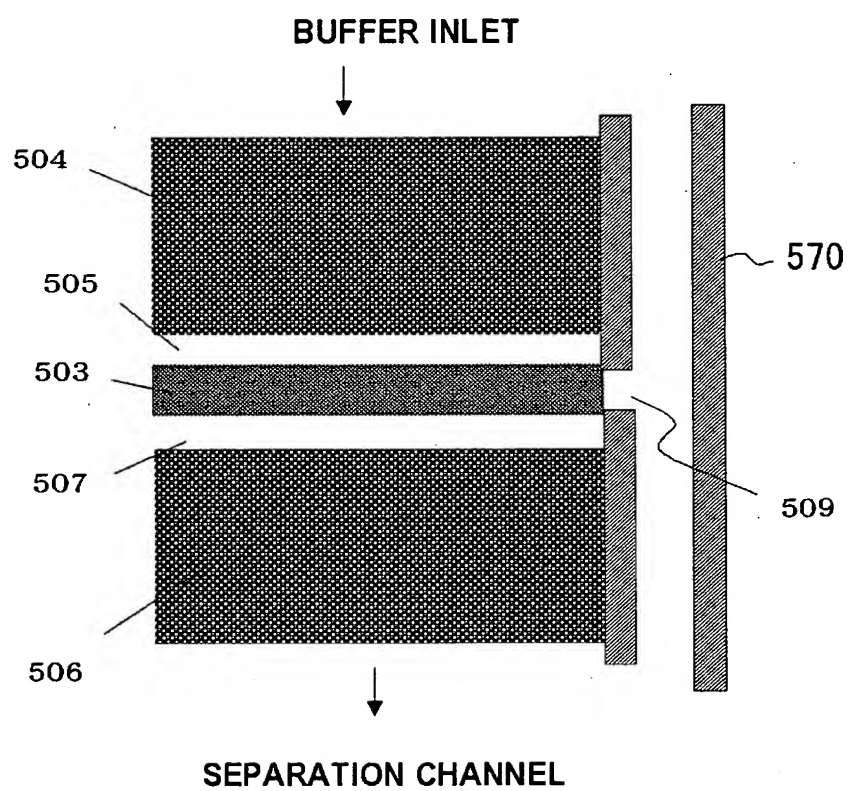
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Fig.37



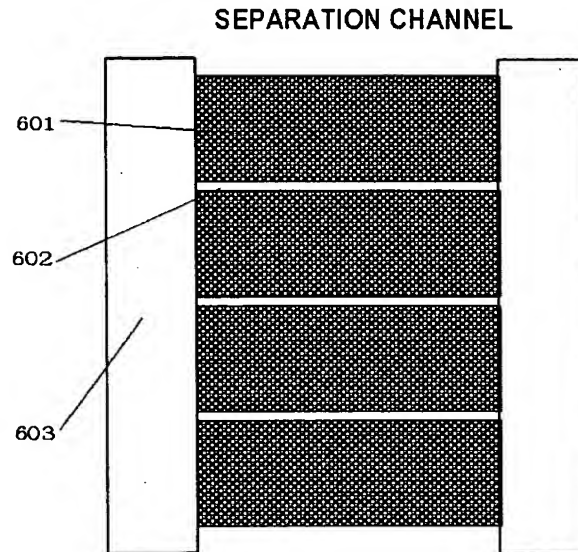
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Fig.38



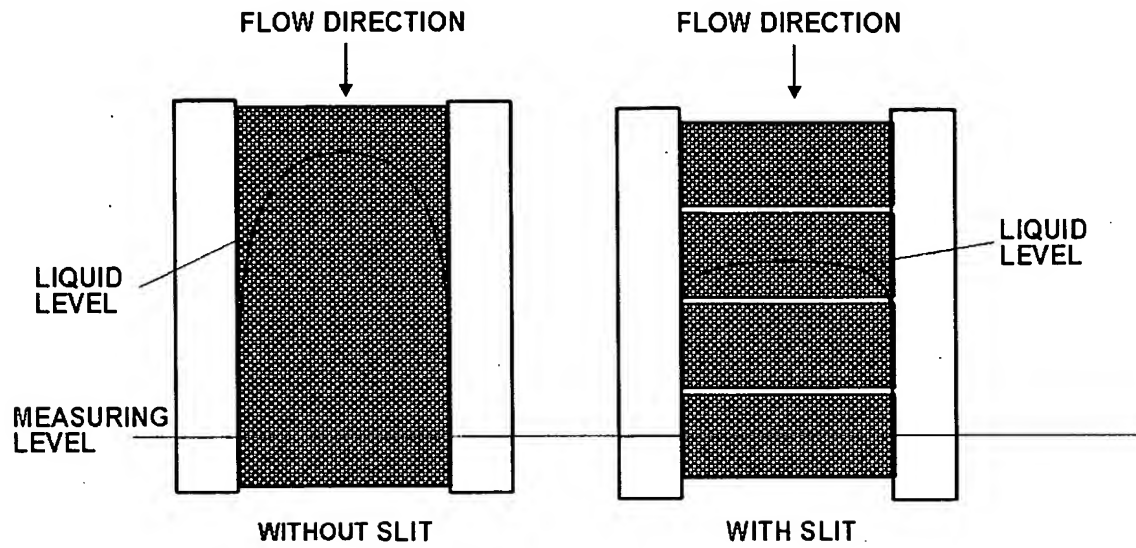
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Fig.39



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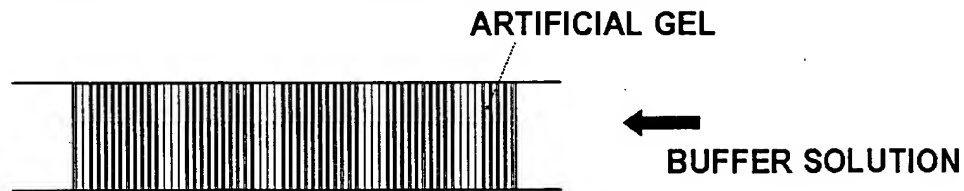
Fig.40



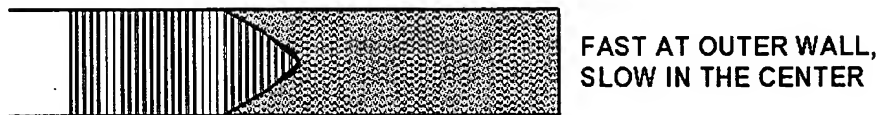
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Fig.41

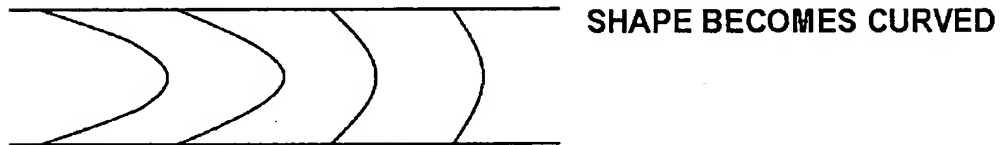
CHANNEL STRUCTURE (EVENLY ARRANGED CASE)



WATER FLOW IN CHANNEL

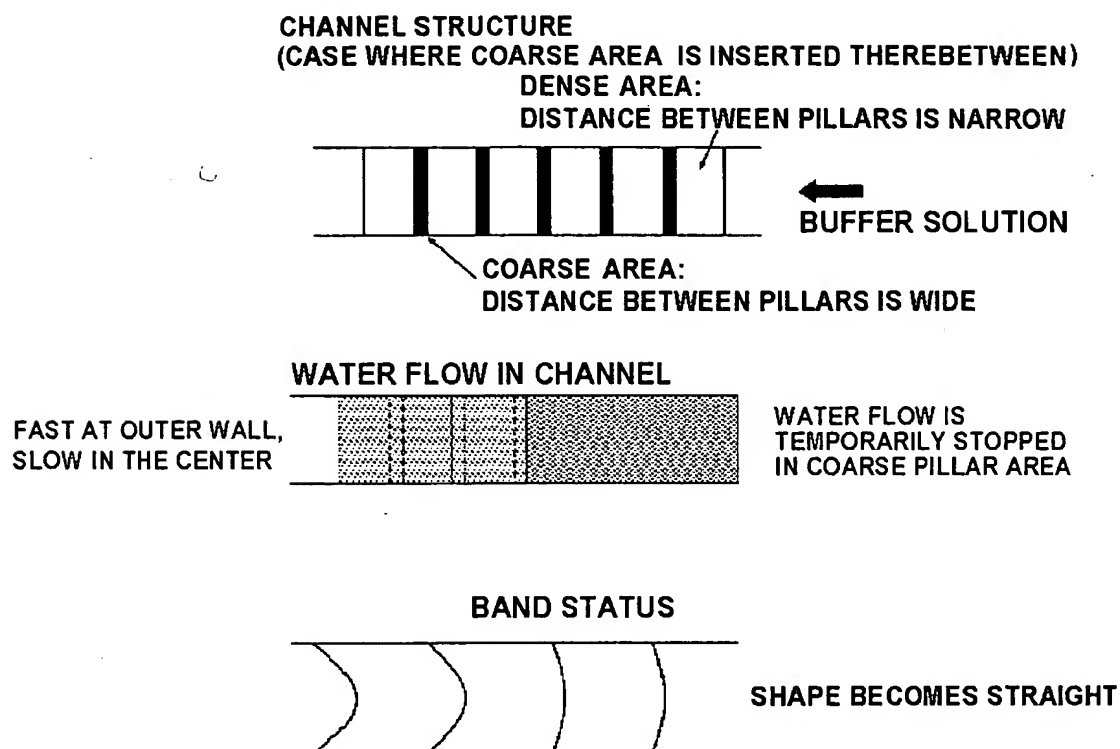


BAND STATUS



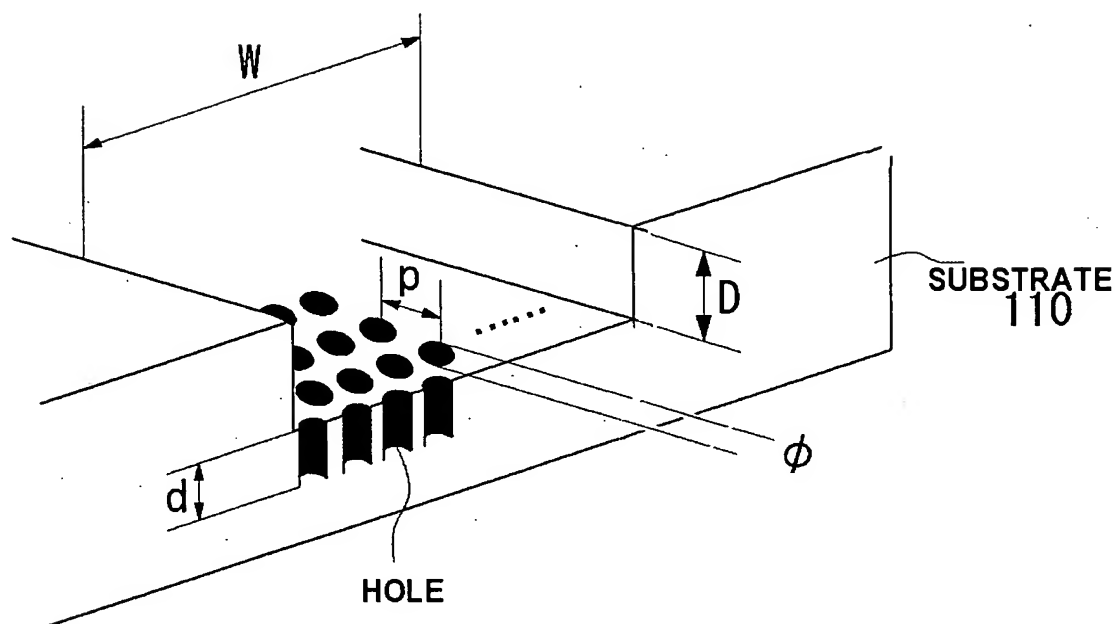
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Fig.42



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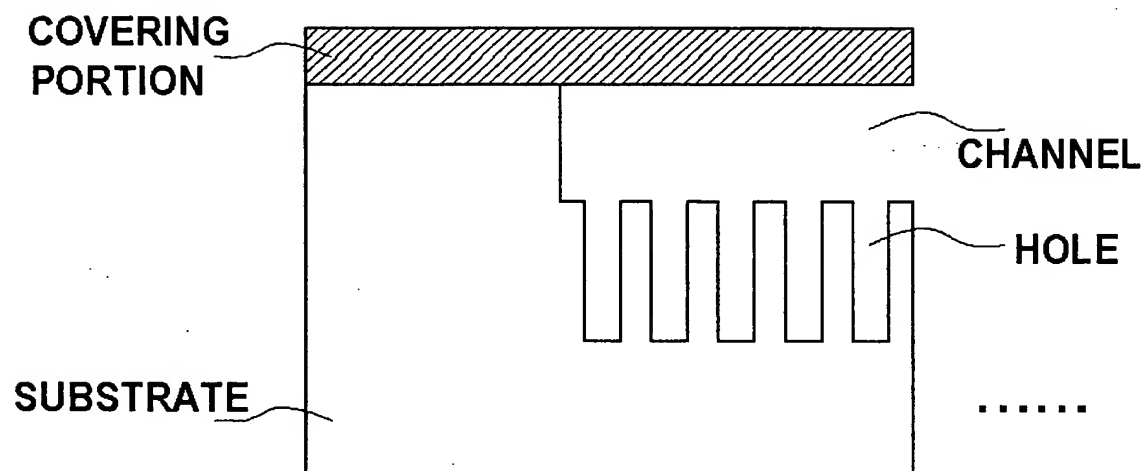
Fig.43



	IN THE CASE OF SMALL-SIZE PARTICLE	IN THE CASE OF LARGE-SIZE PARTICLE
W	10 ~ 2000 μm	
D	100nm OR LESS	3 μm OR LESS
ϕ	50nm OR LESS	300nm OR LESS
d	100nm OR LESS	3 μm OR LESS
p	50nm OR LESS	300nm OR LESS

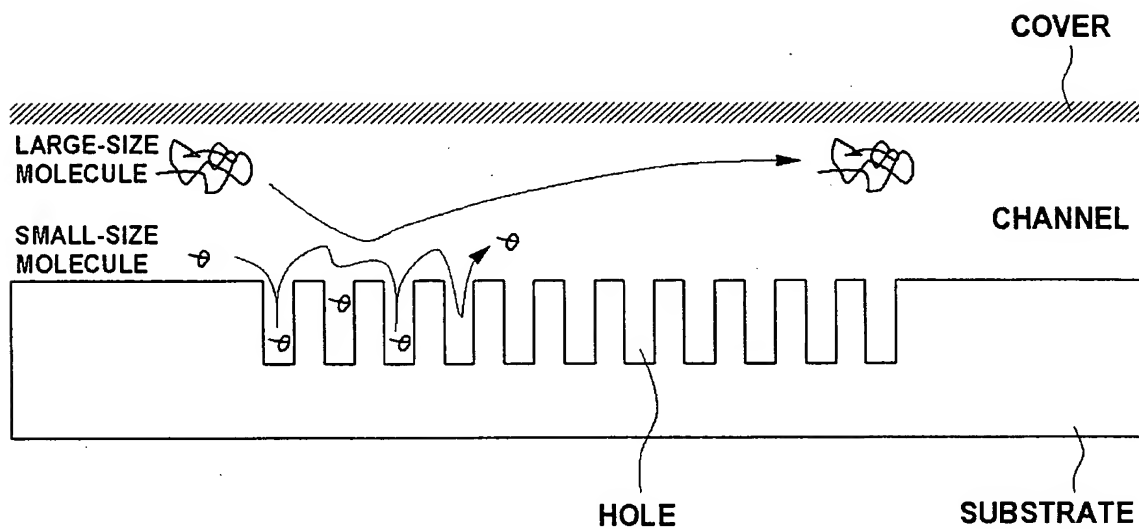
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Fig.44



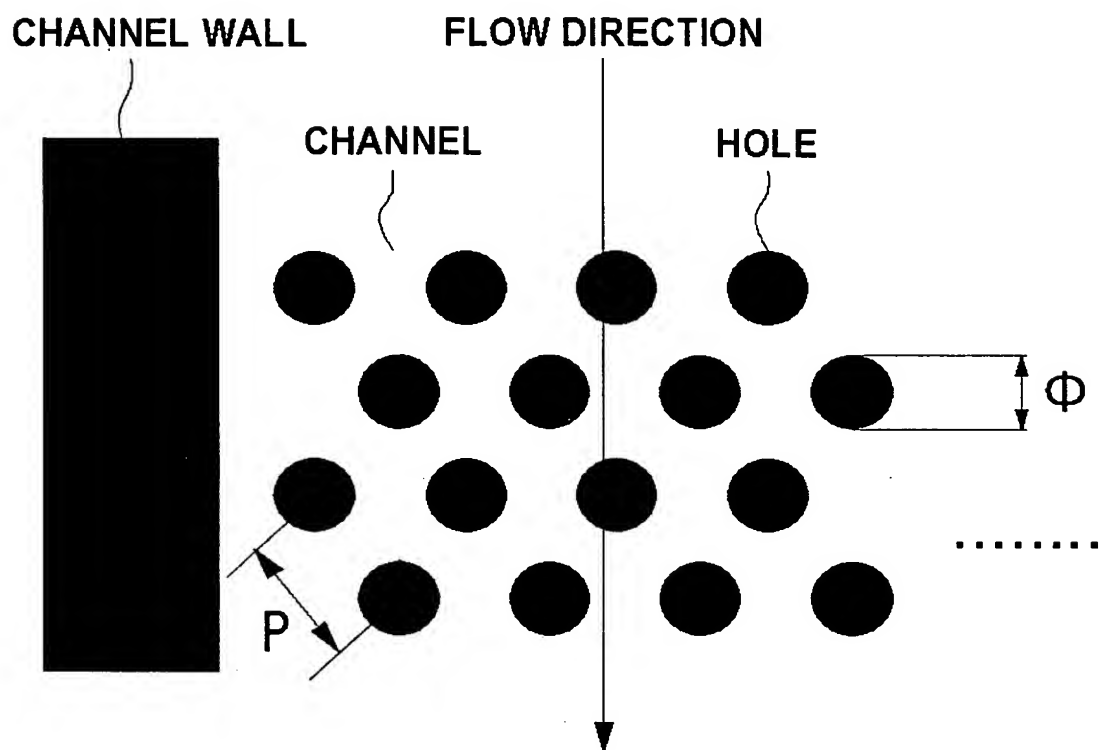
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Fig.45



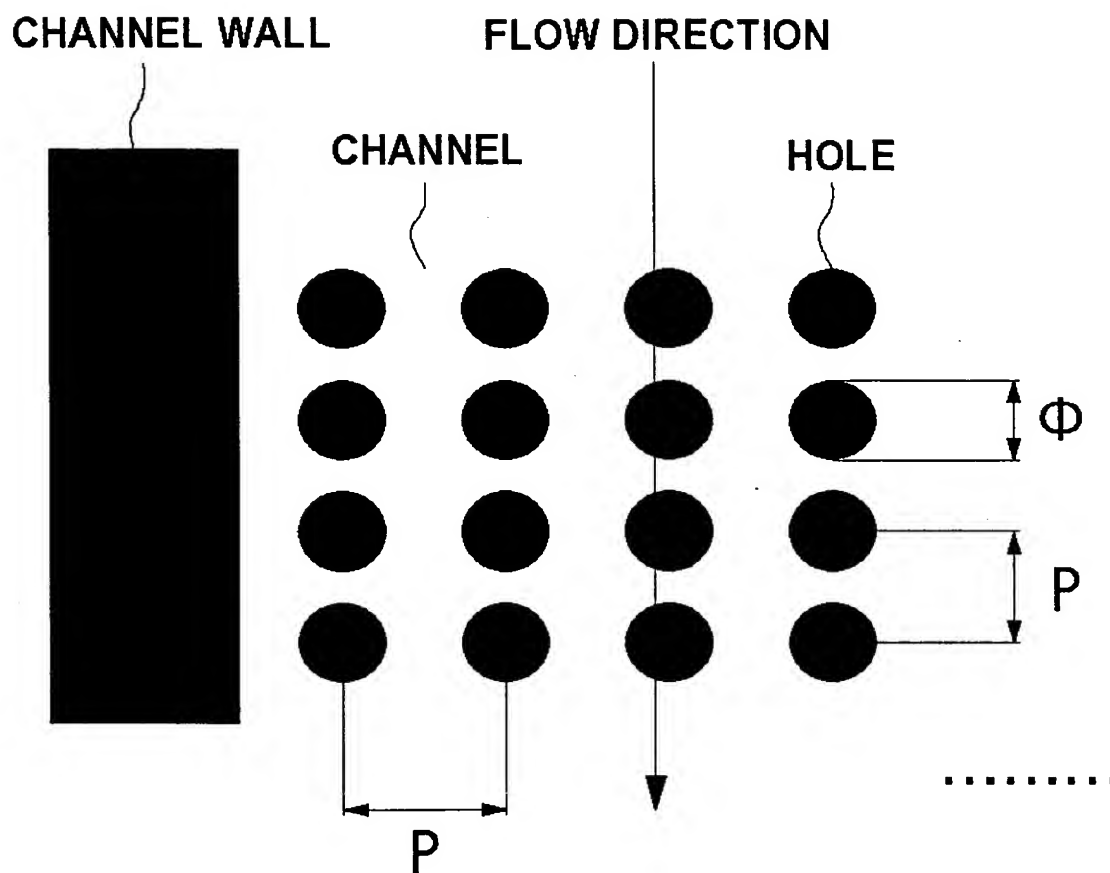
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Fig.46



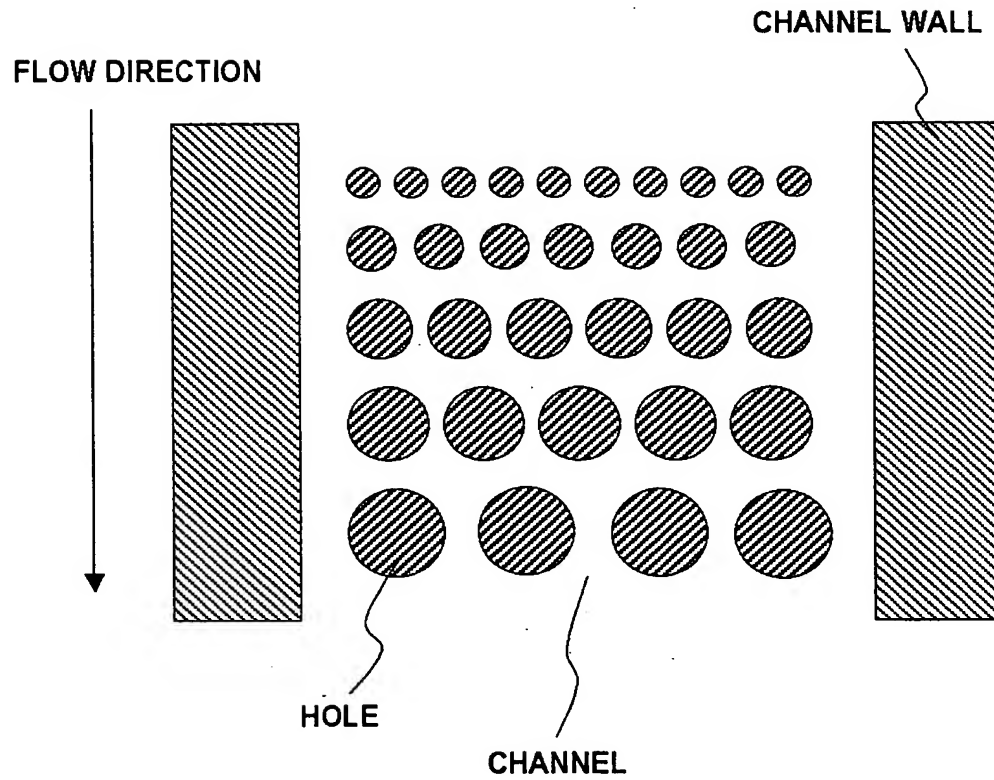
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Fig.47



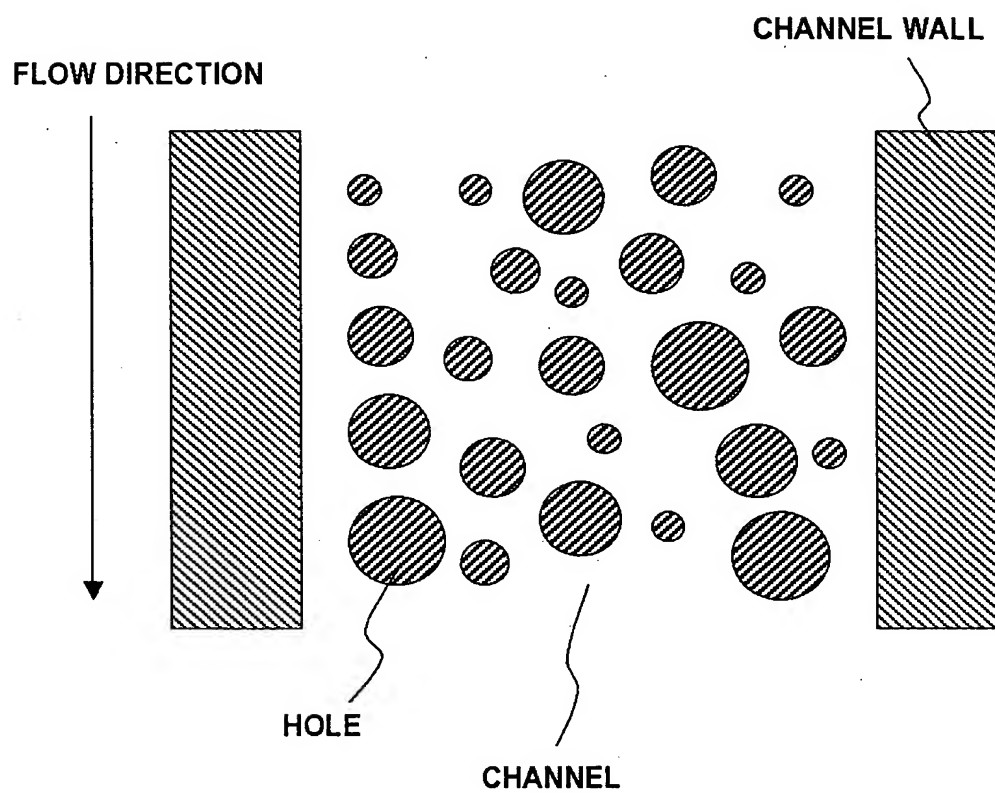
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Fig.48



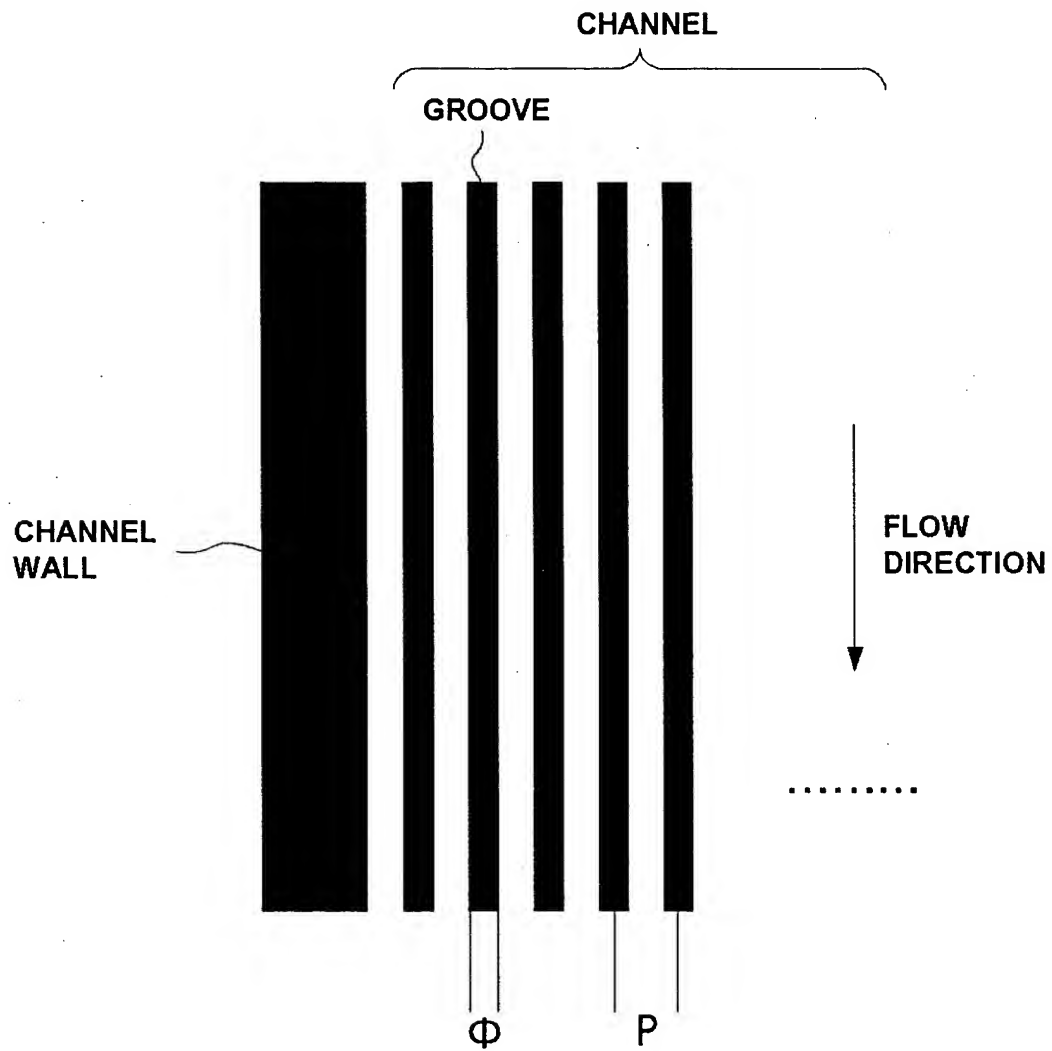
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Fig.49



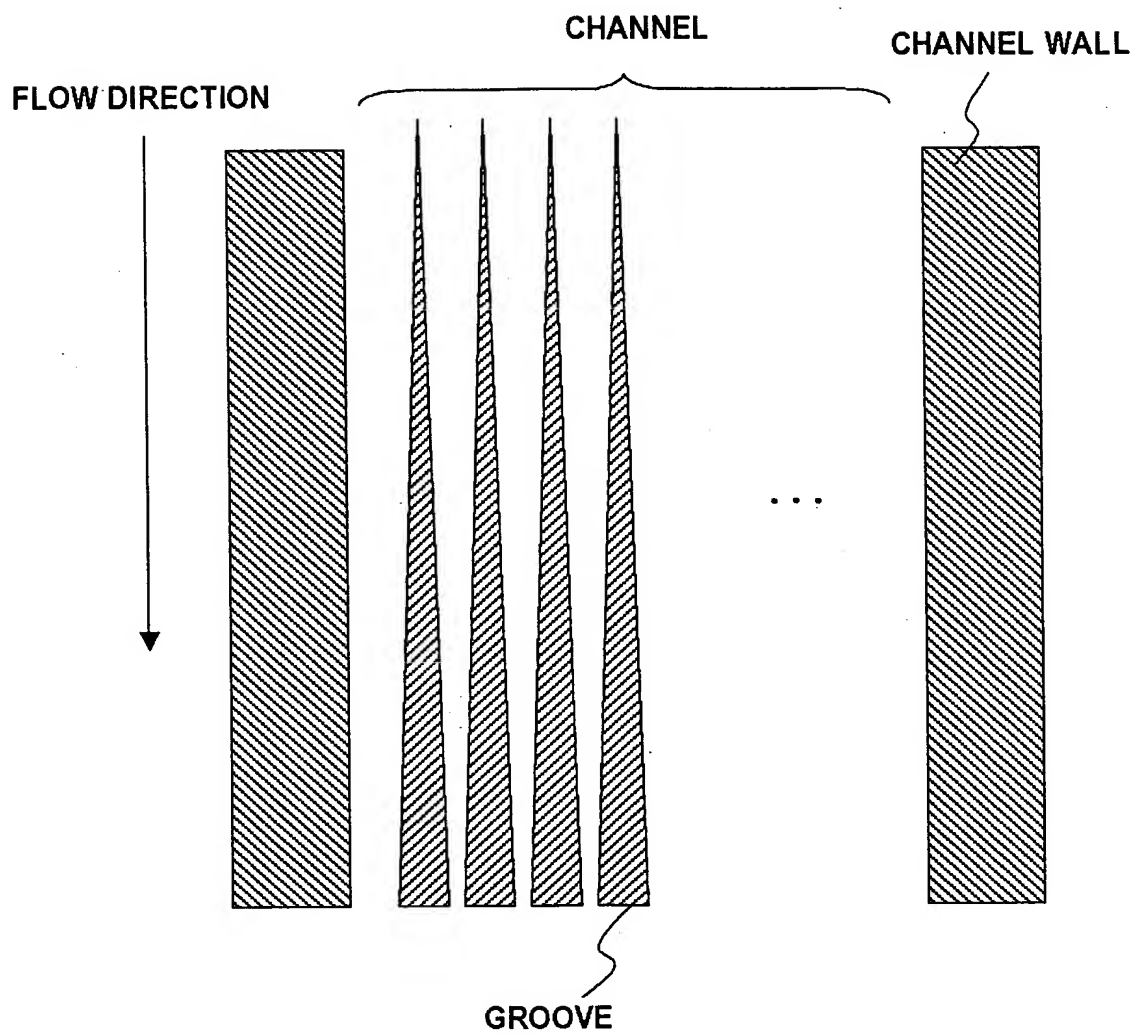
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Fig.50



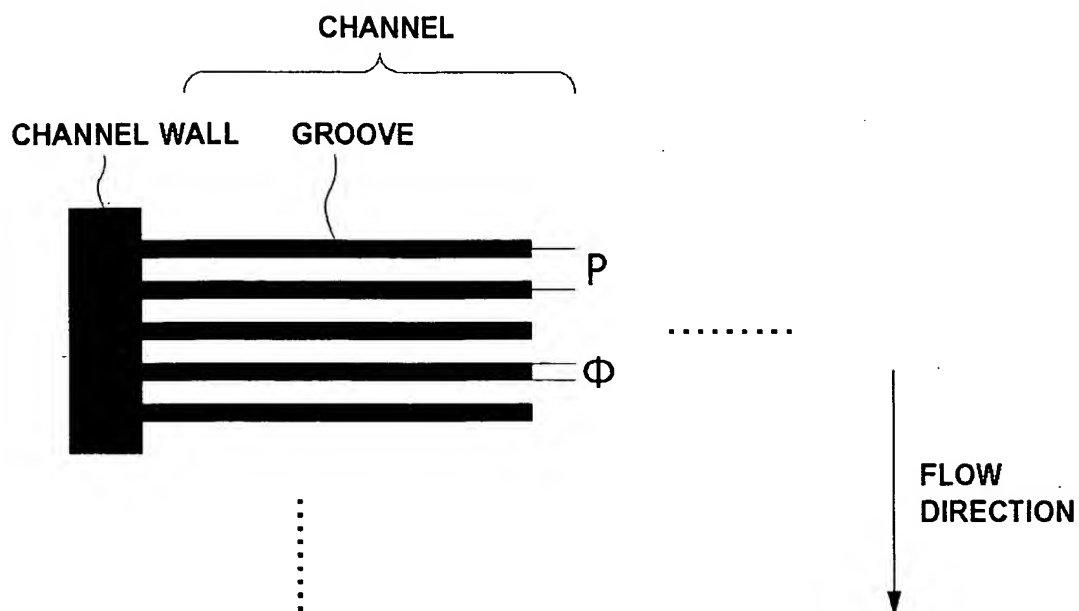
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Fig.51



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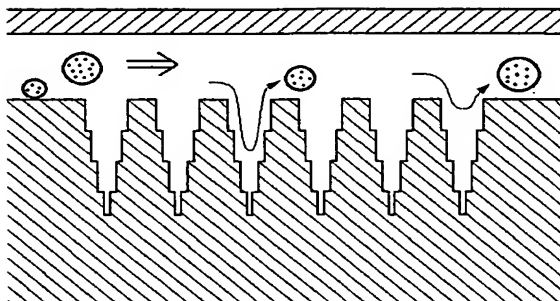
Fig.52



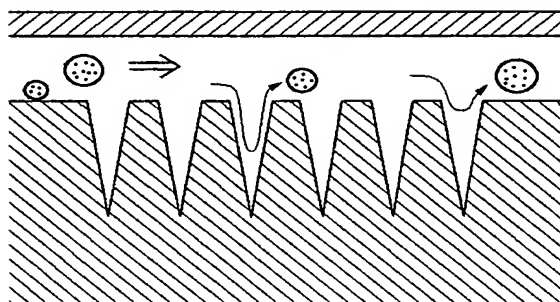
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Fig.53

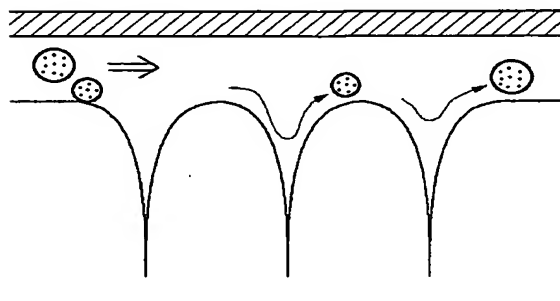
(a)



(b)



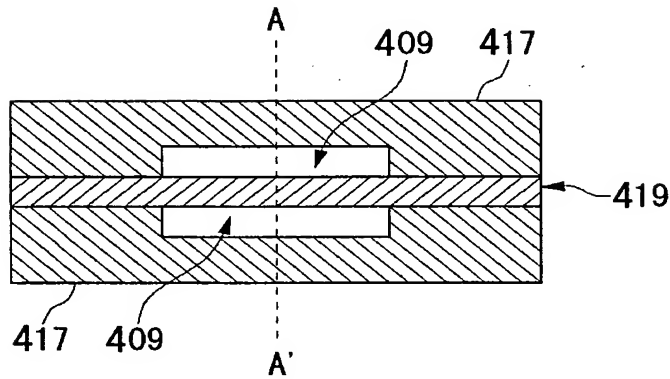
(c)



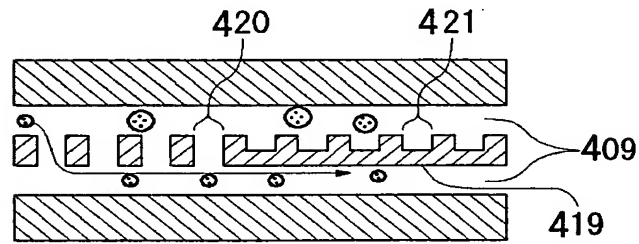
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Fig.54

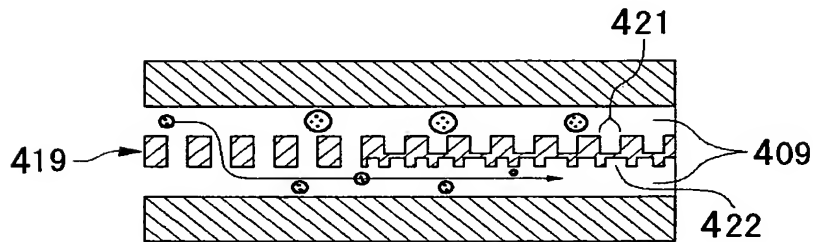
(a)



(b)



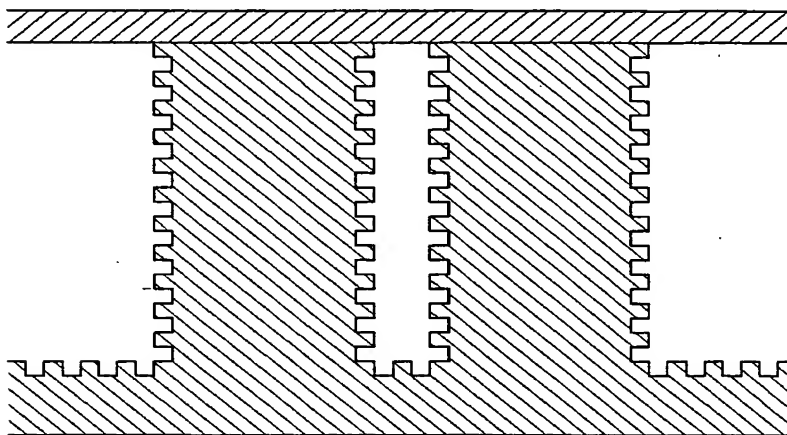
(c)



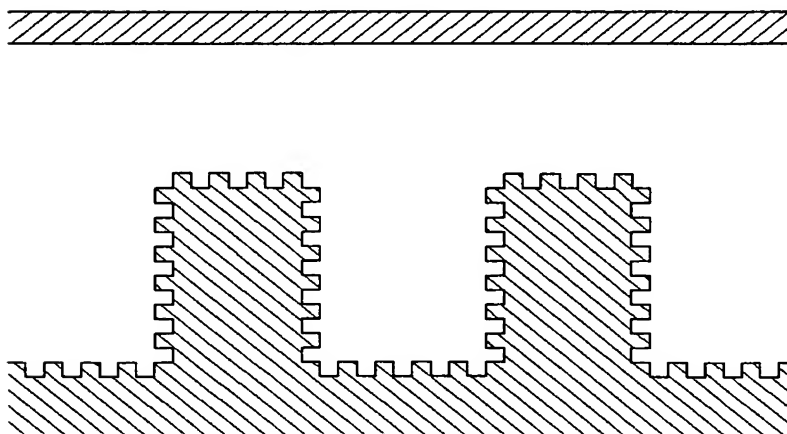
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Fig.55

(a)



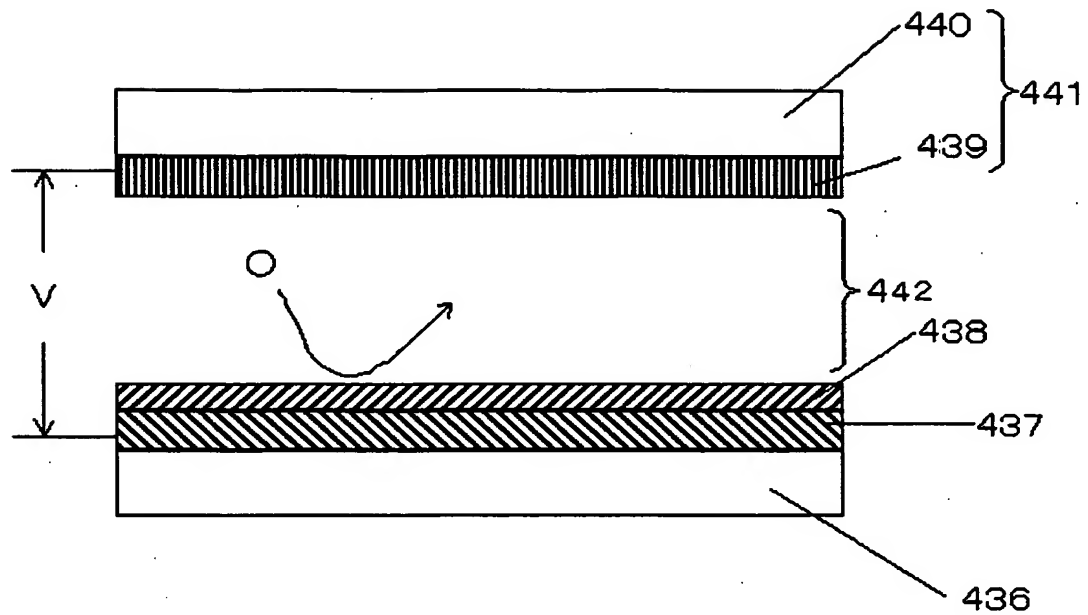
(b)



10/549587

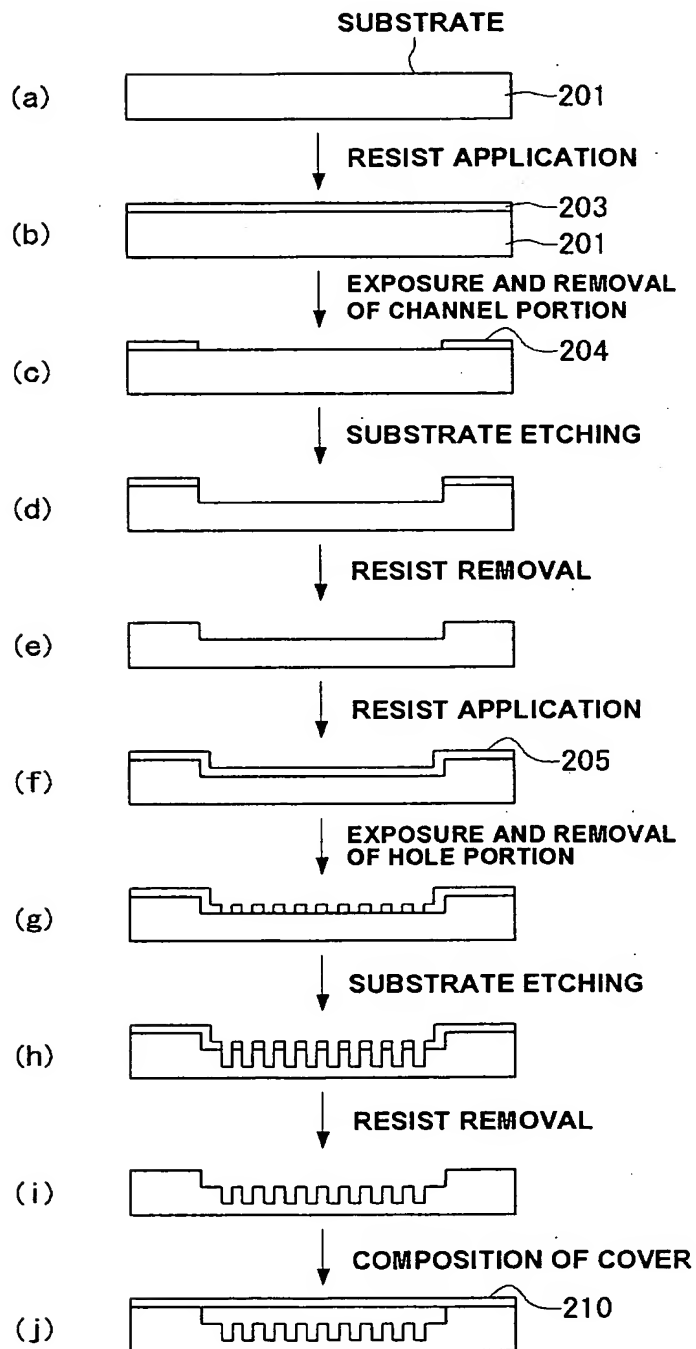
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Fig.56



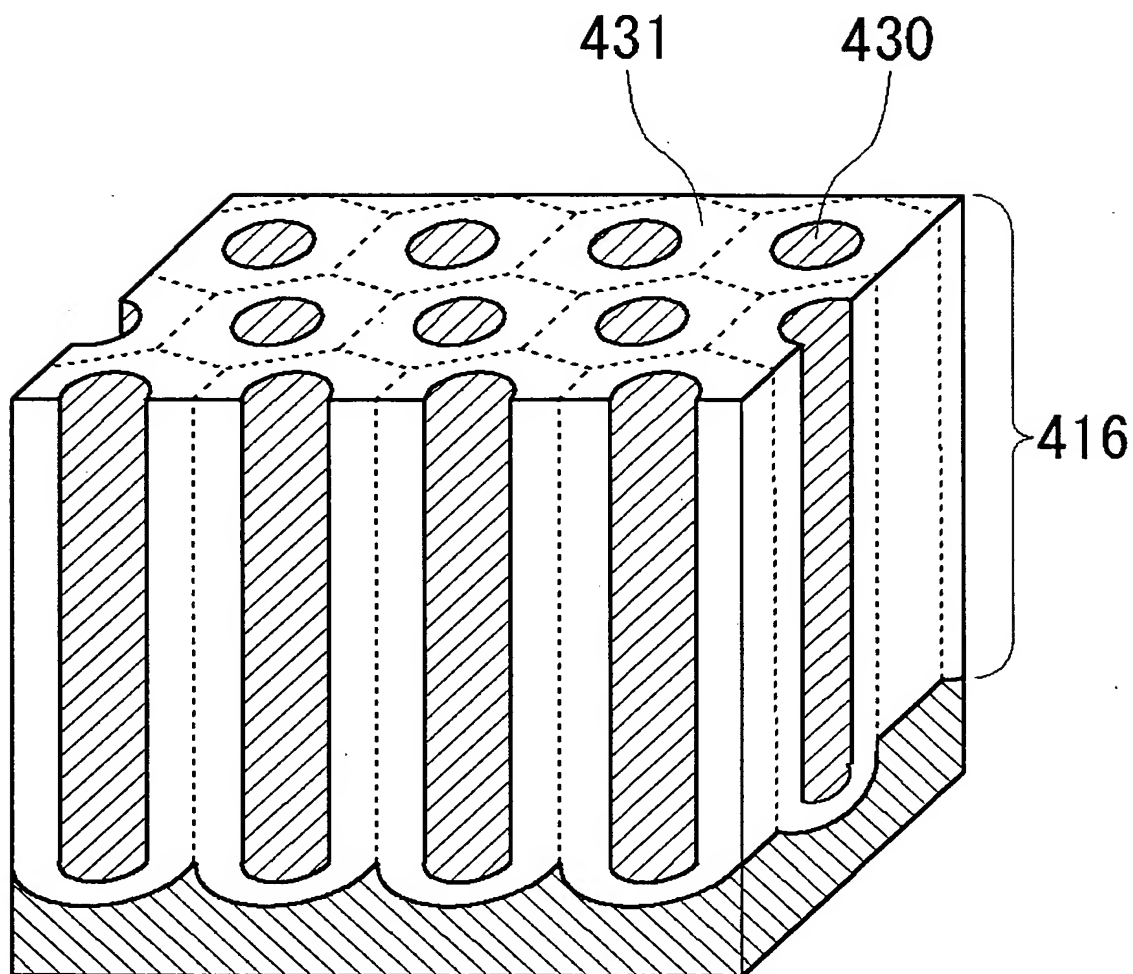
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Fig.57



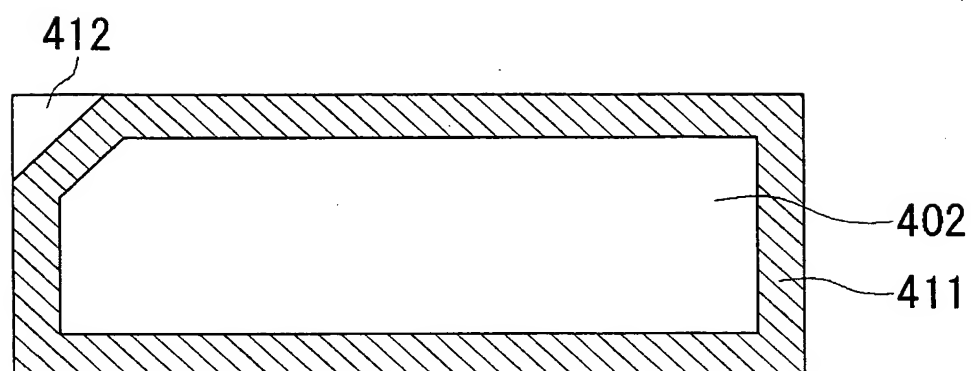
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Fig.58



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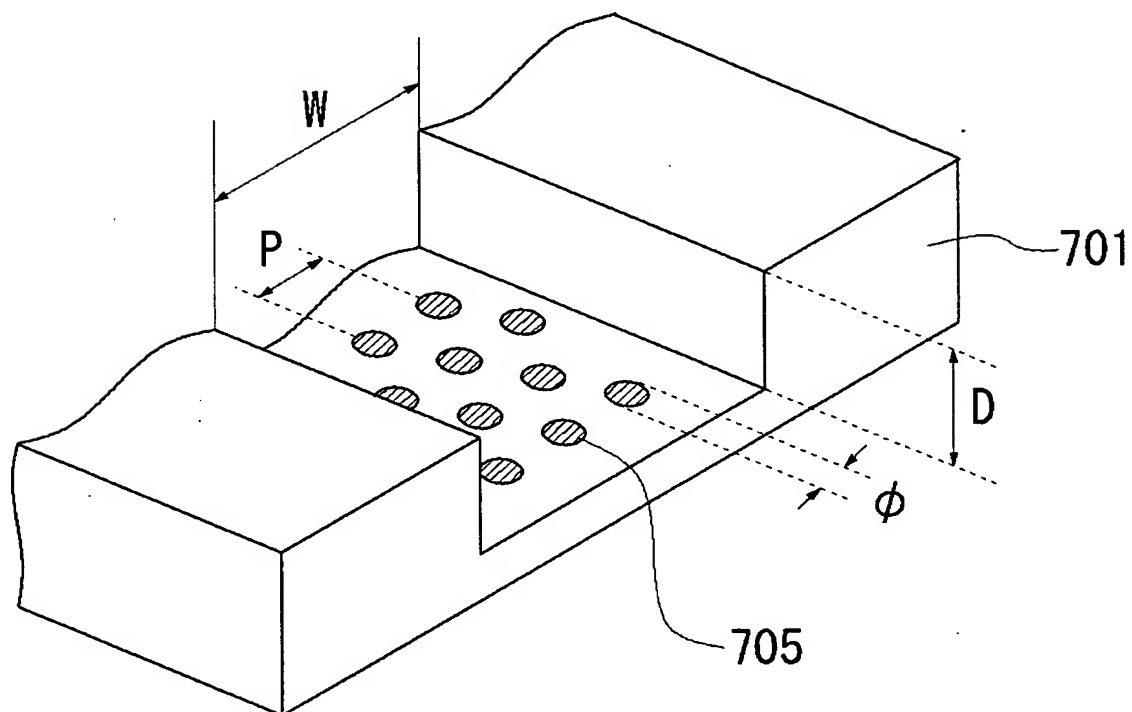
Fig.59



10/549587

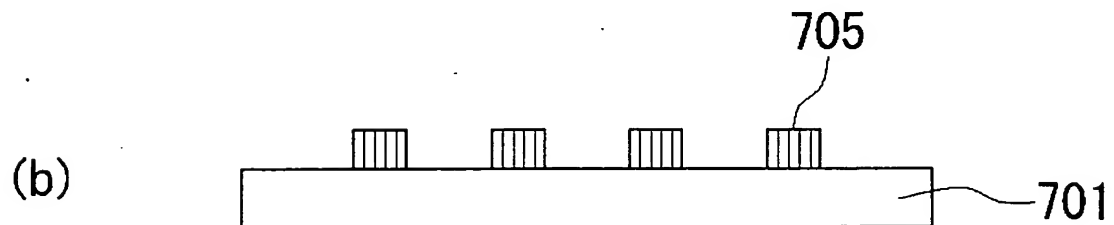
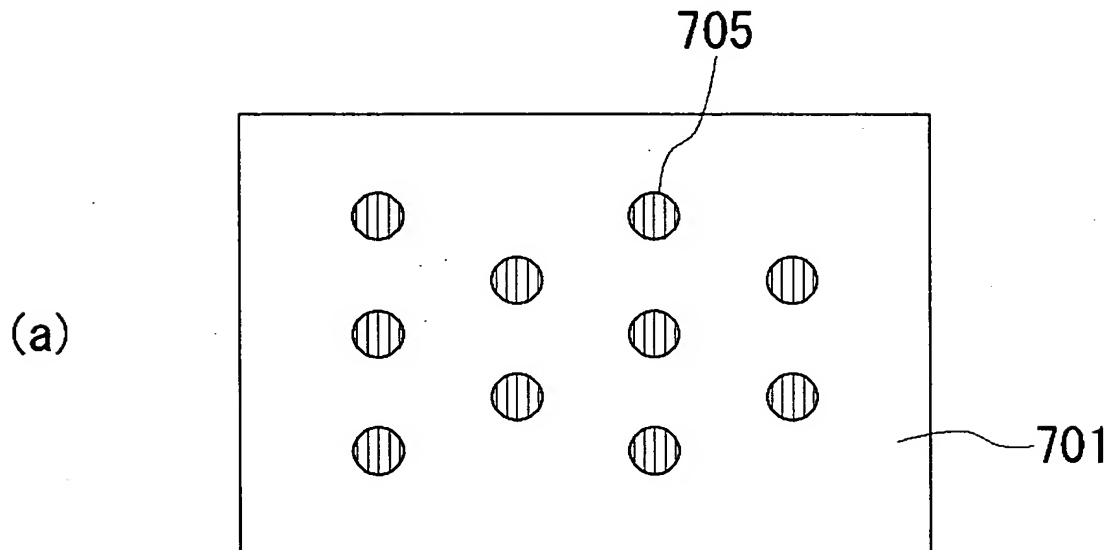
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Fig.60



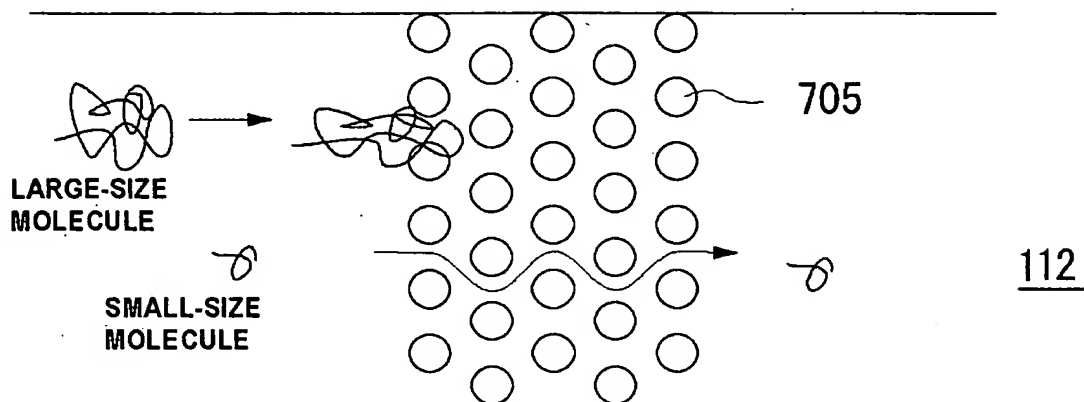
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Fig.61



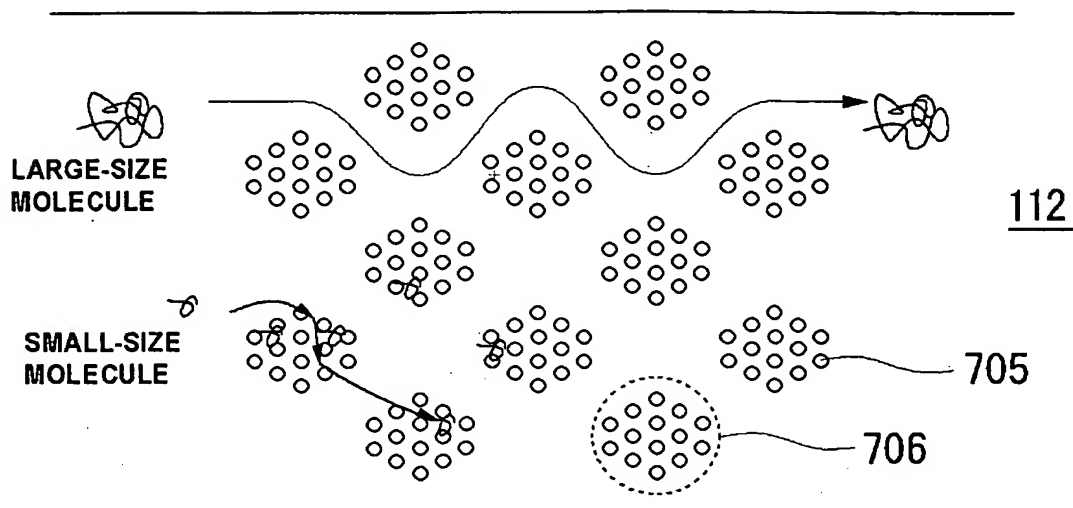
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Fig.62



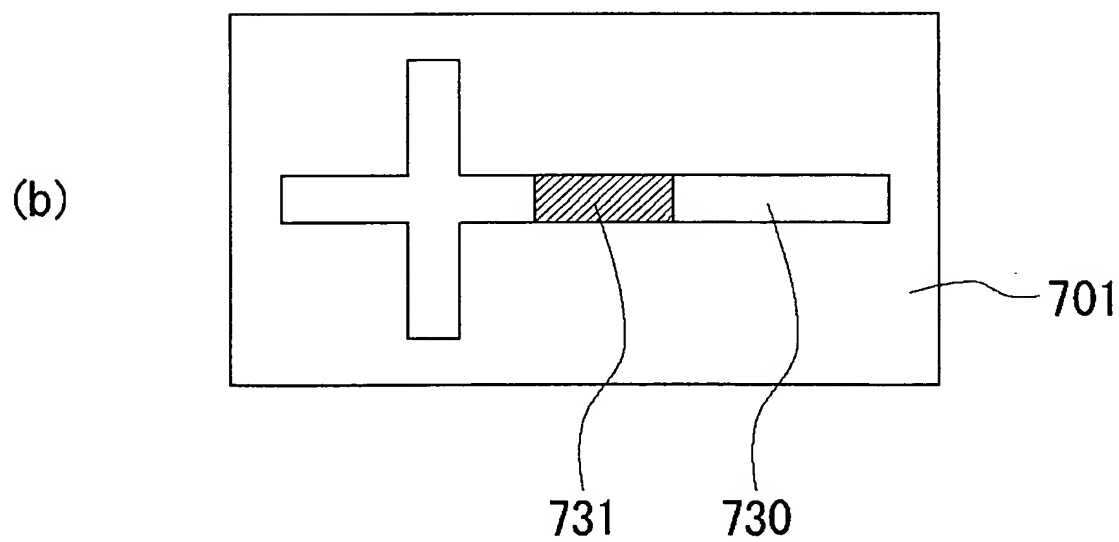
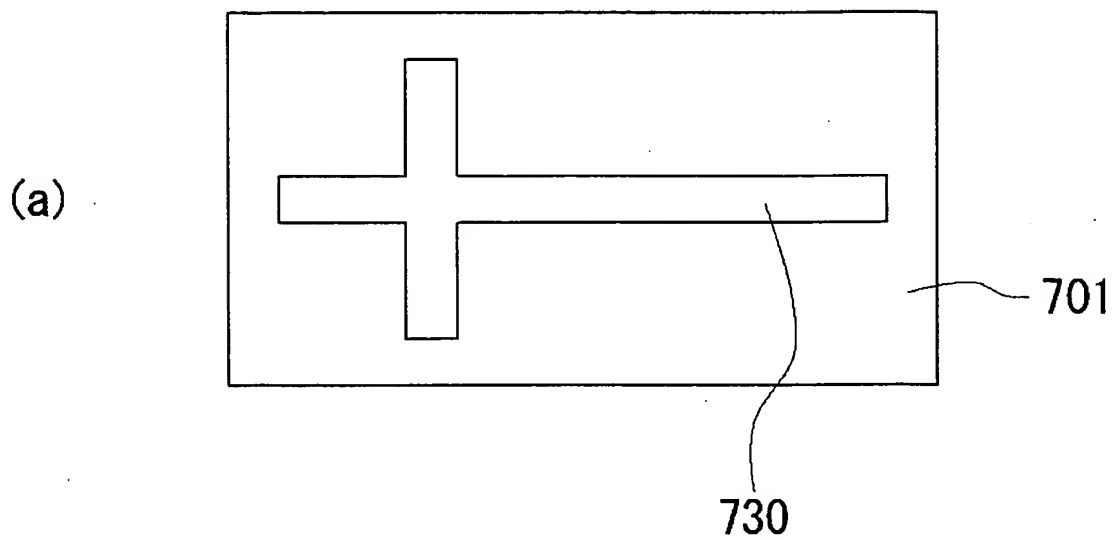
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Fig.63



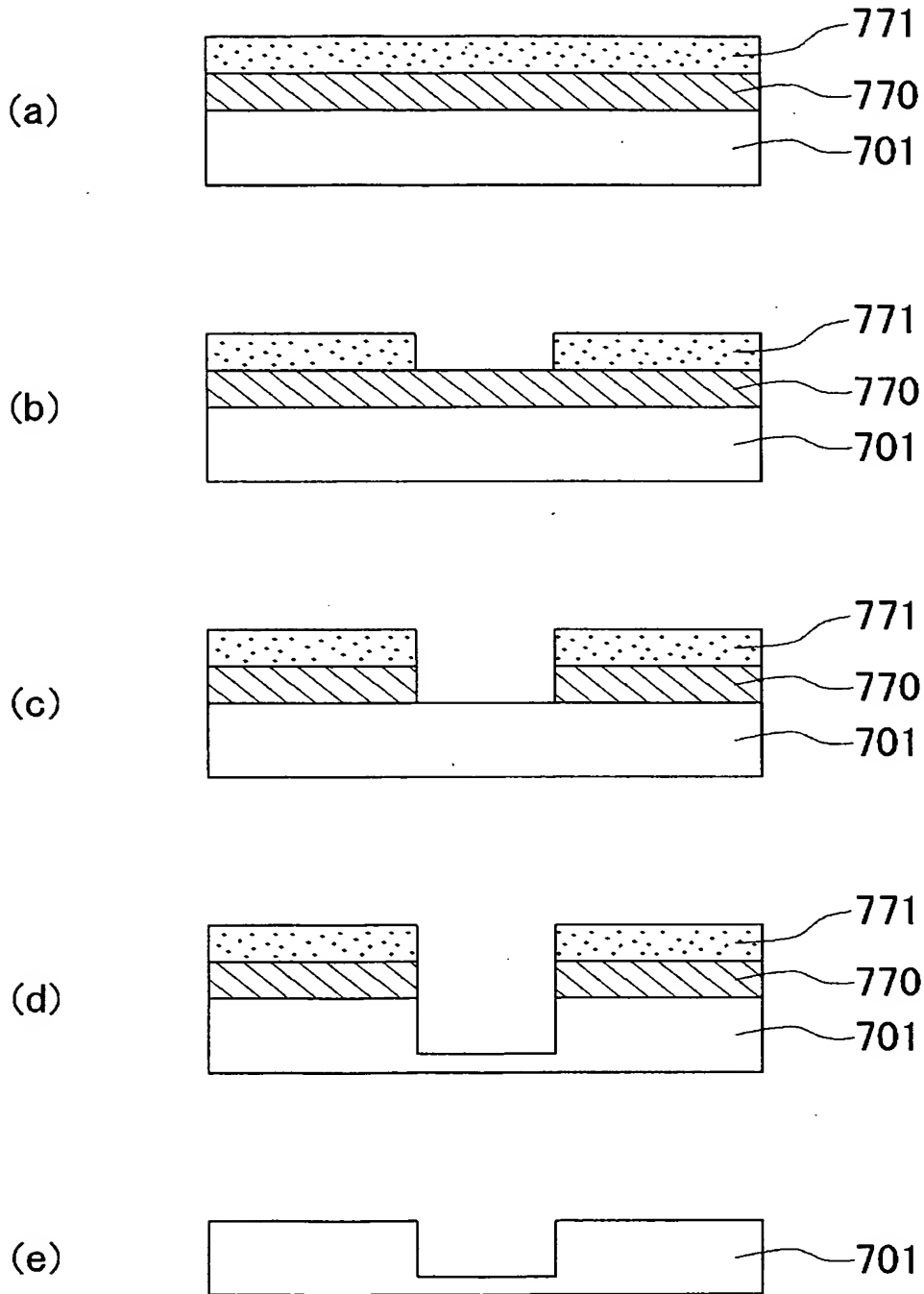
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Fig.64



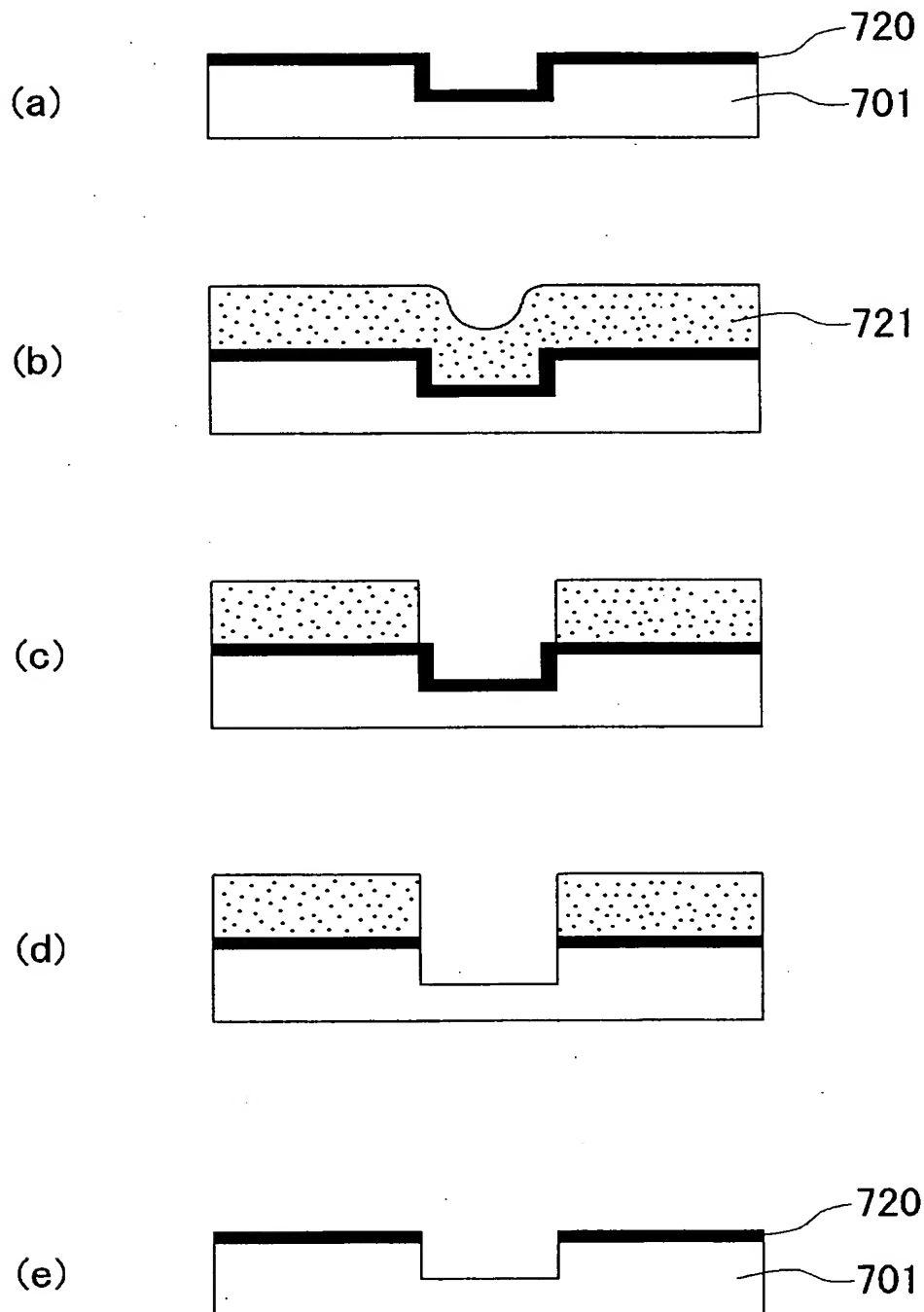
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Fig.65



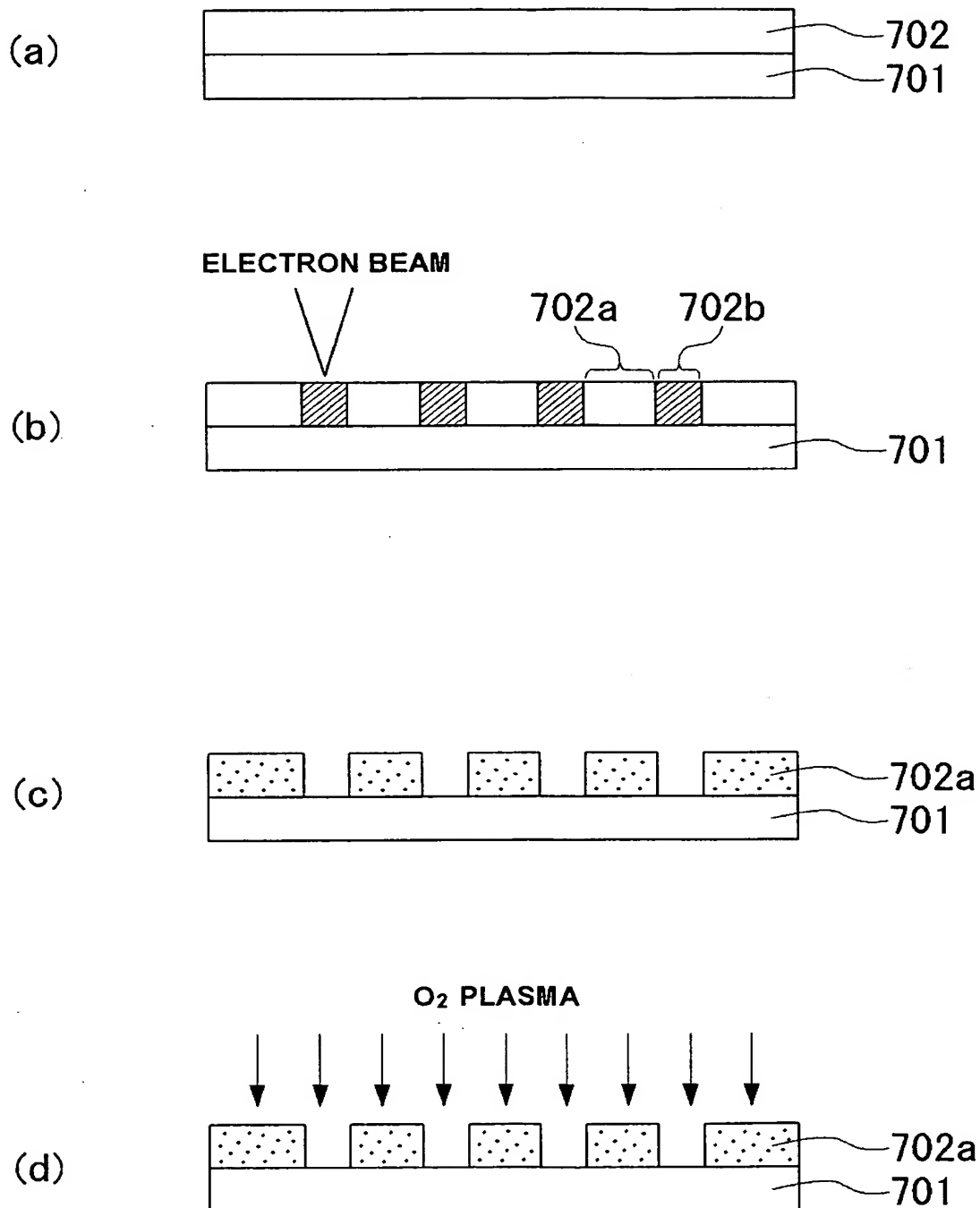
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Fig.66



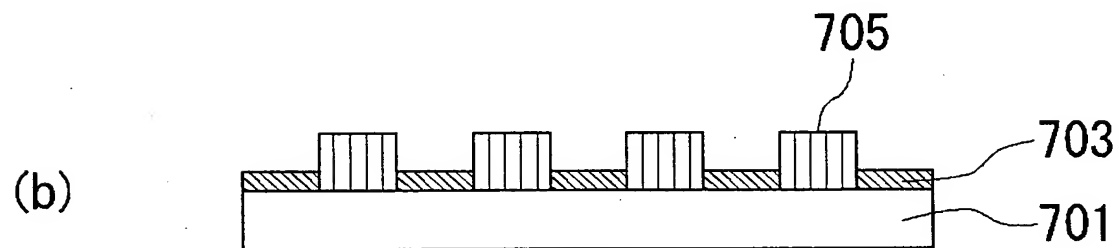
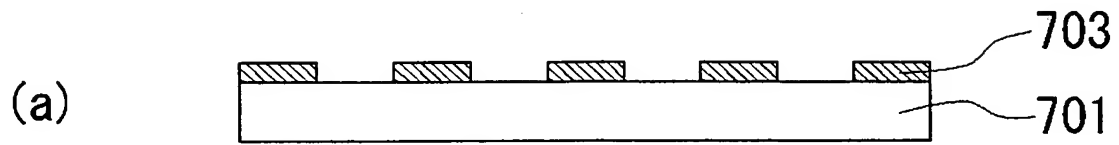
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Fig.67



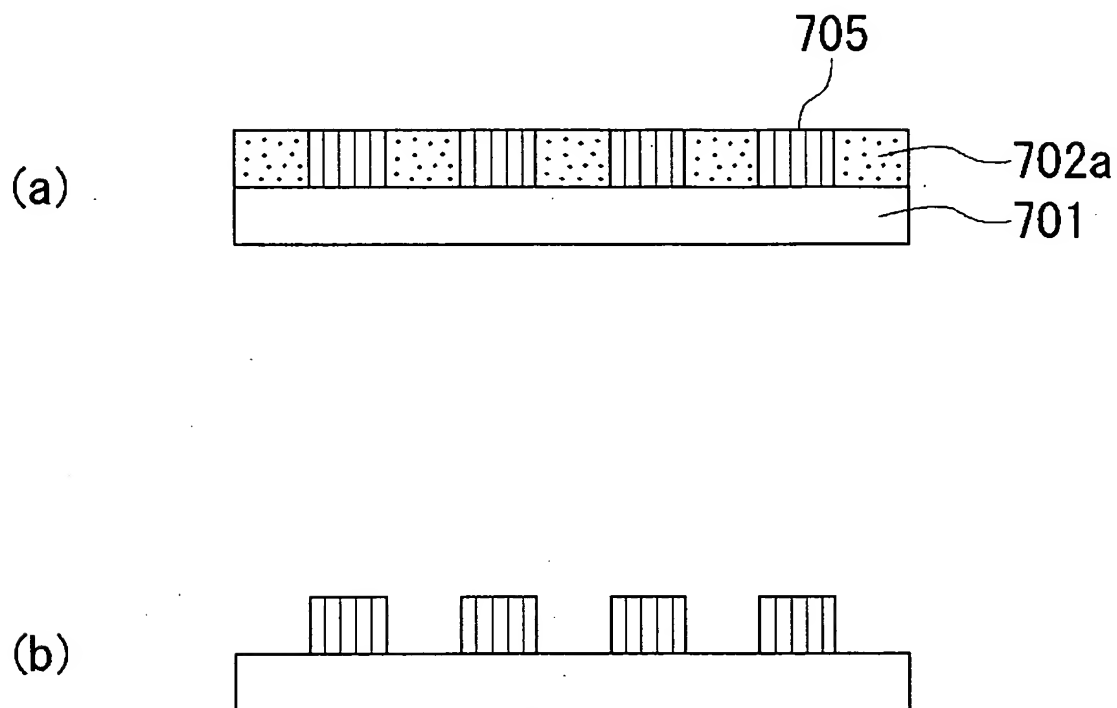
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Fig.68



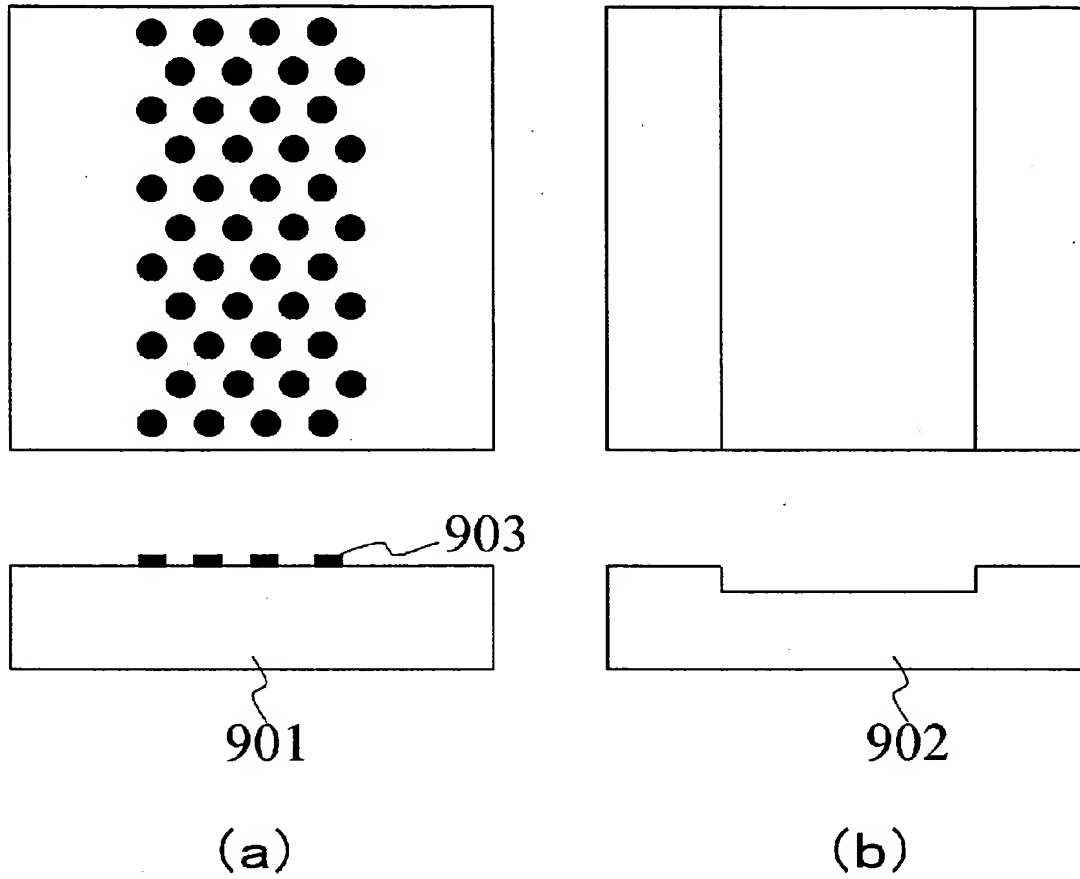
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Fig.69



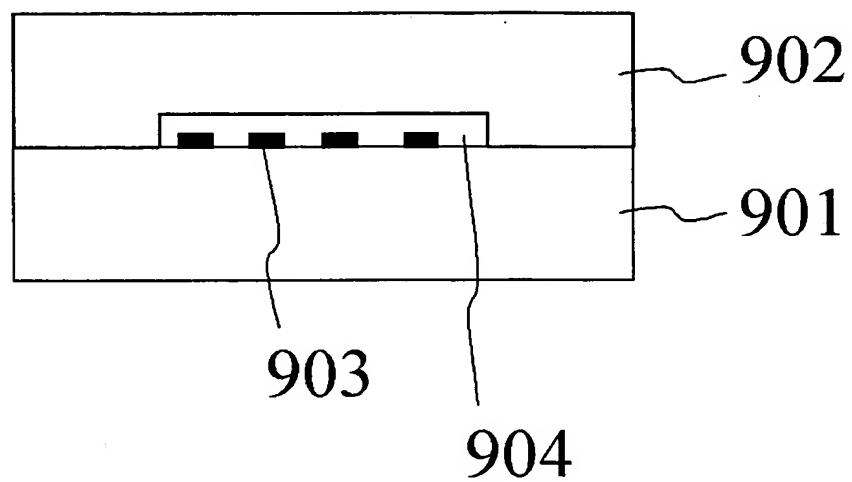
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Fig.70



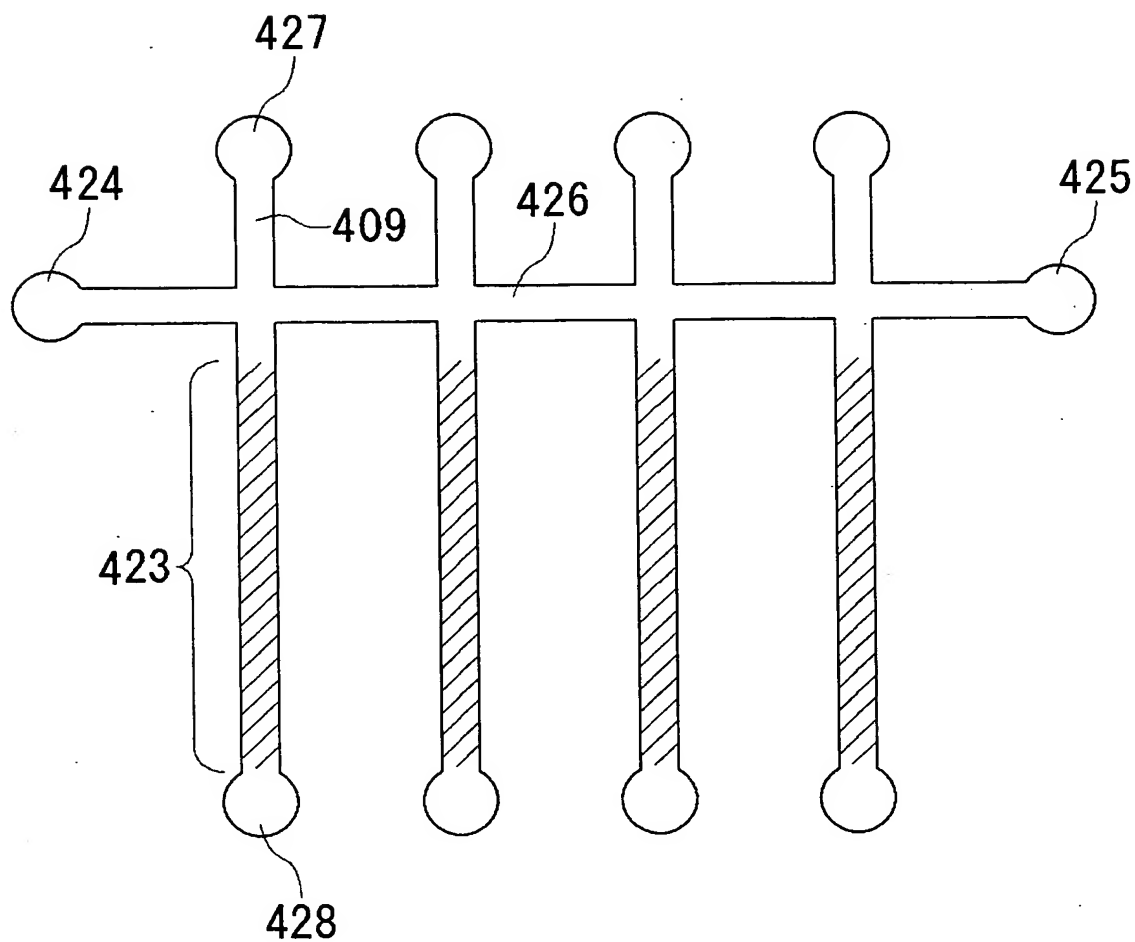
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Fig.71



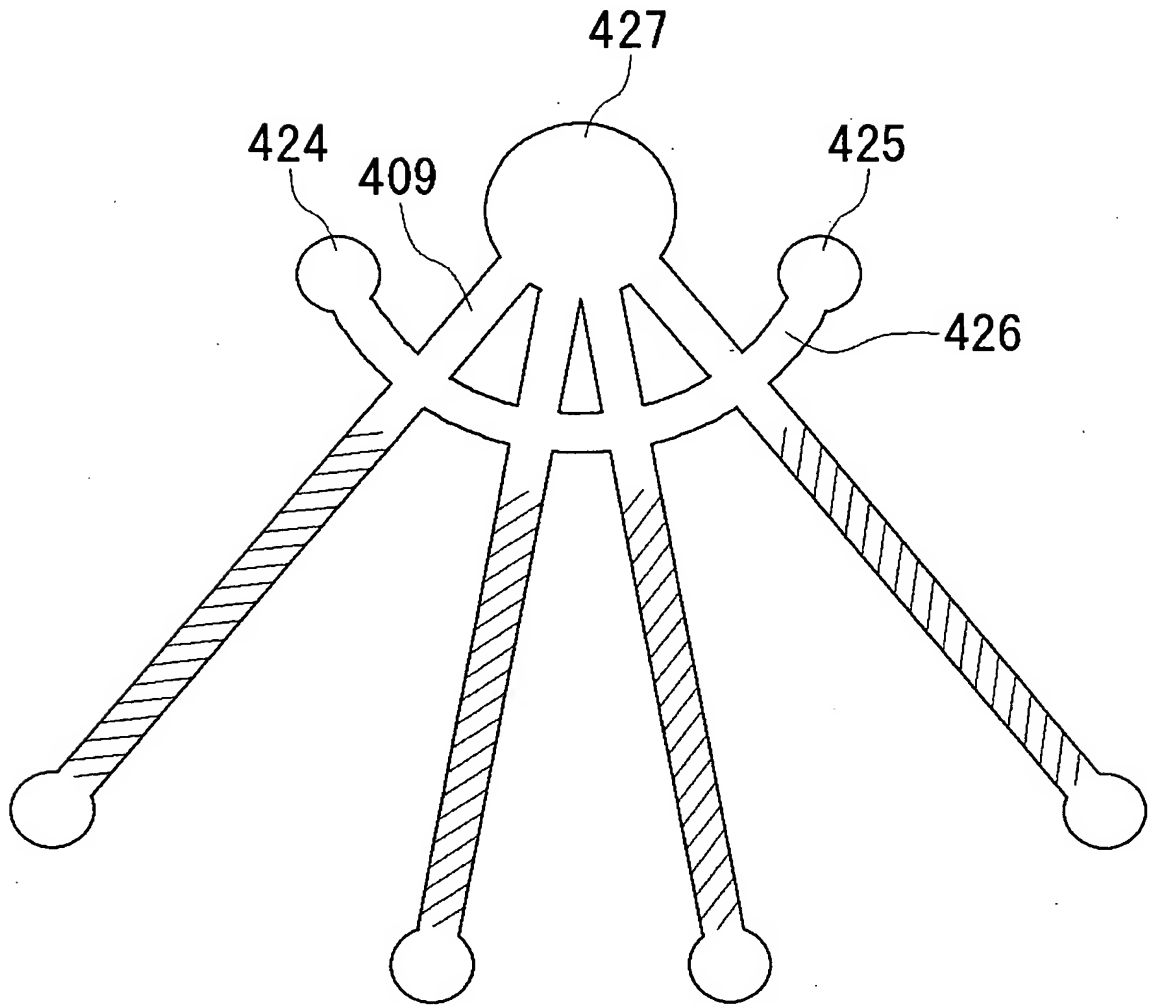
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Fig.72



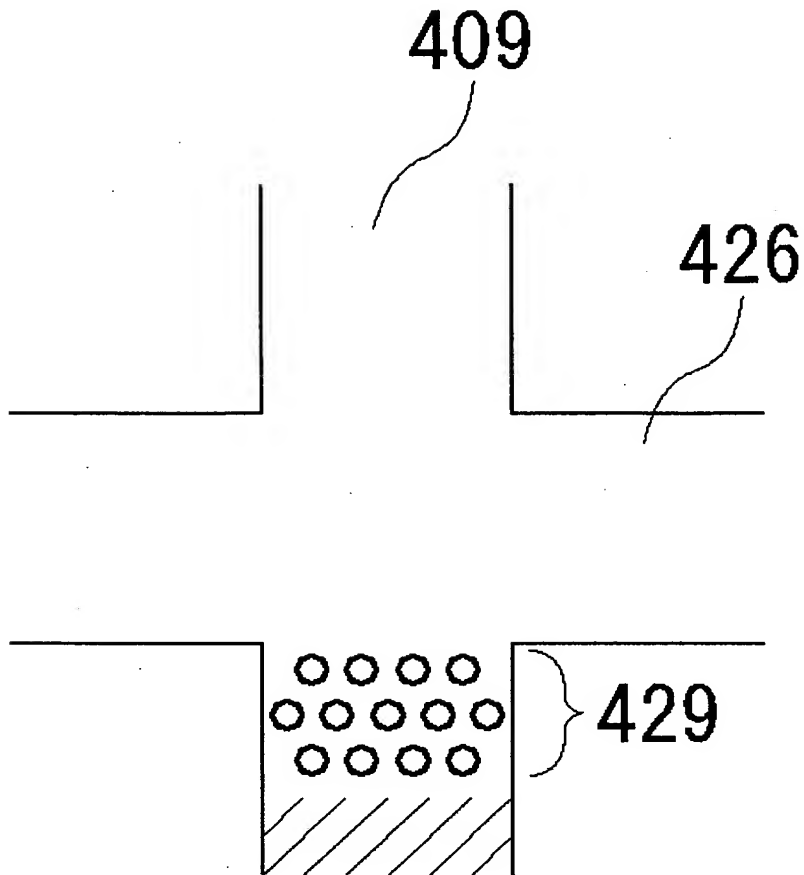
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Fig.73



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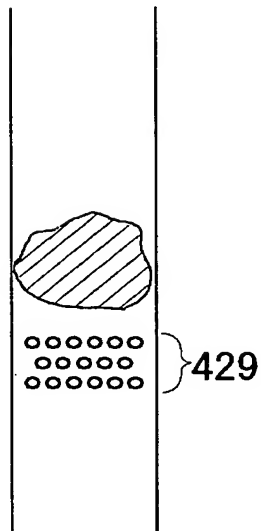
Fig.74



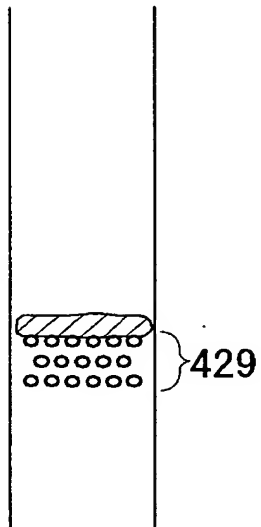
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Fig.75

(a)



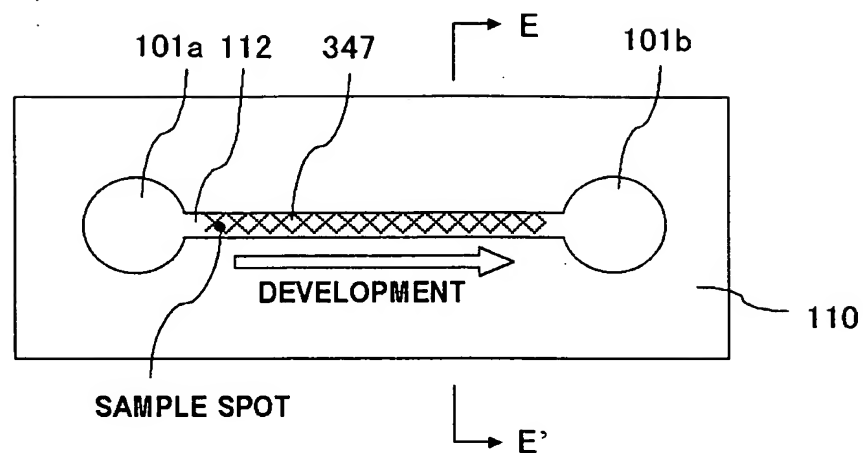
(b)



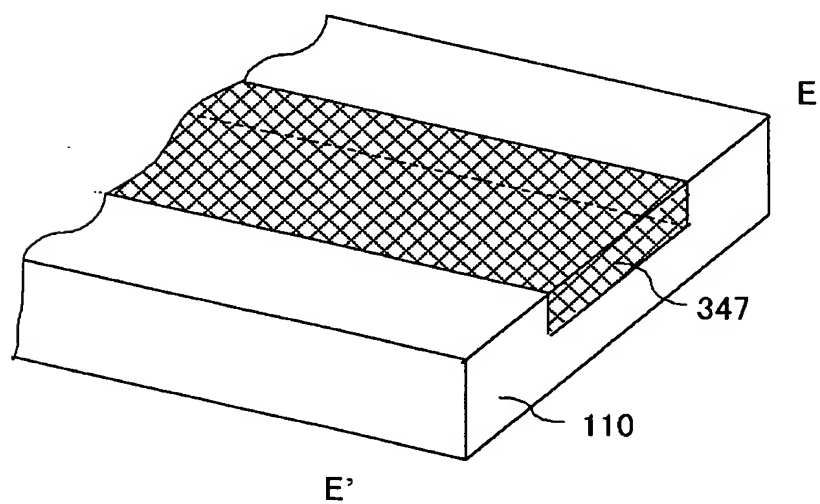
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Fig. 76

(a)

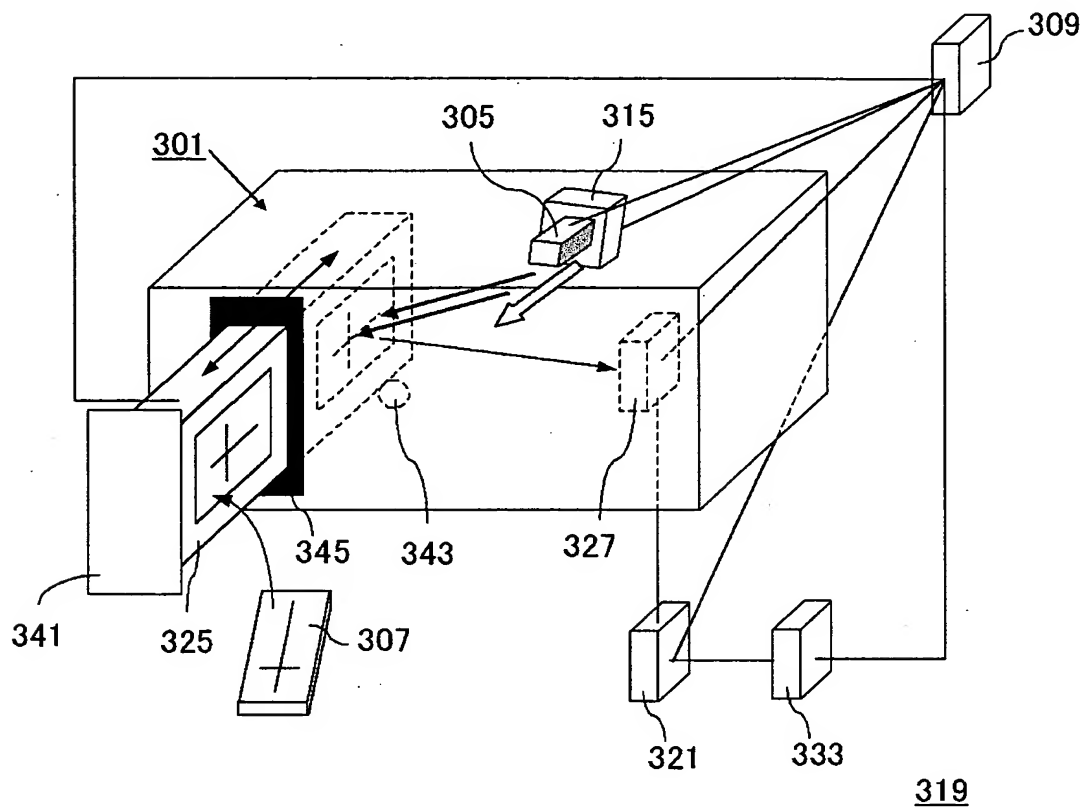


(b)



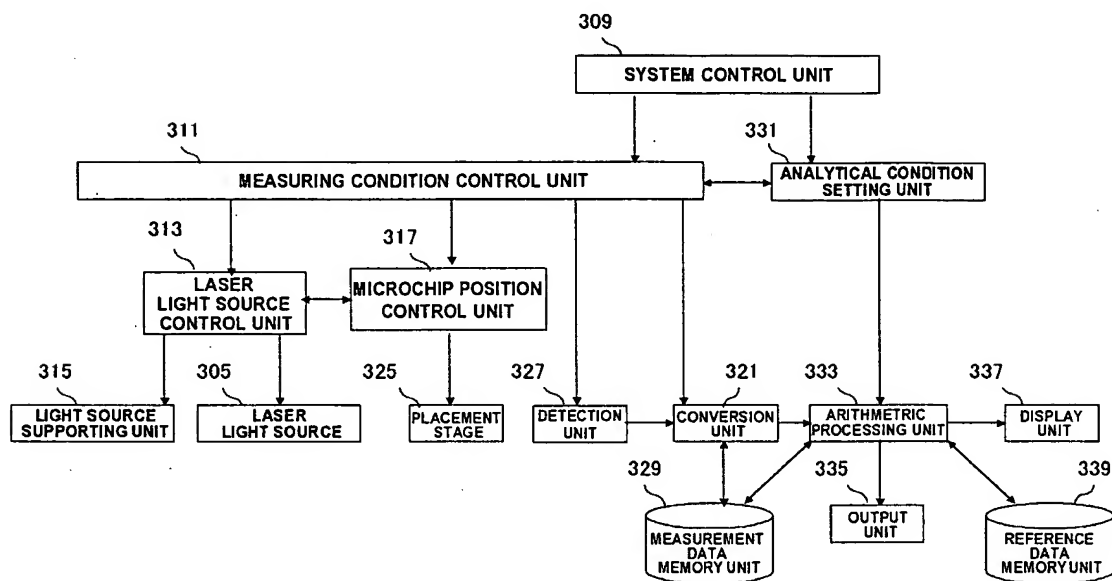
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Fig.77



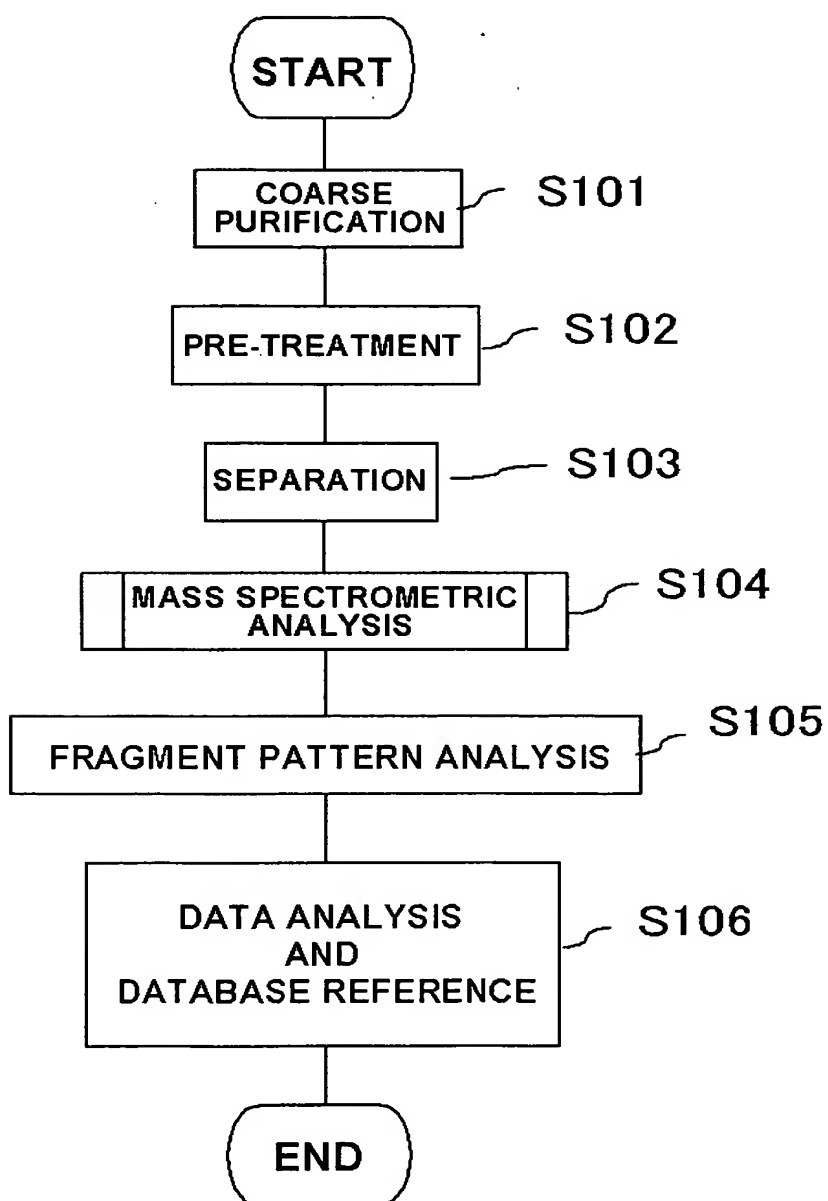
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Fig.78



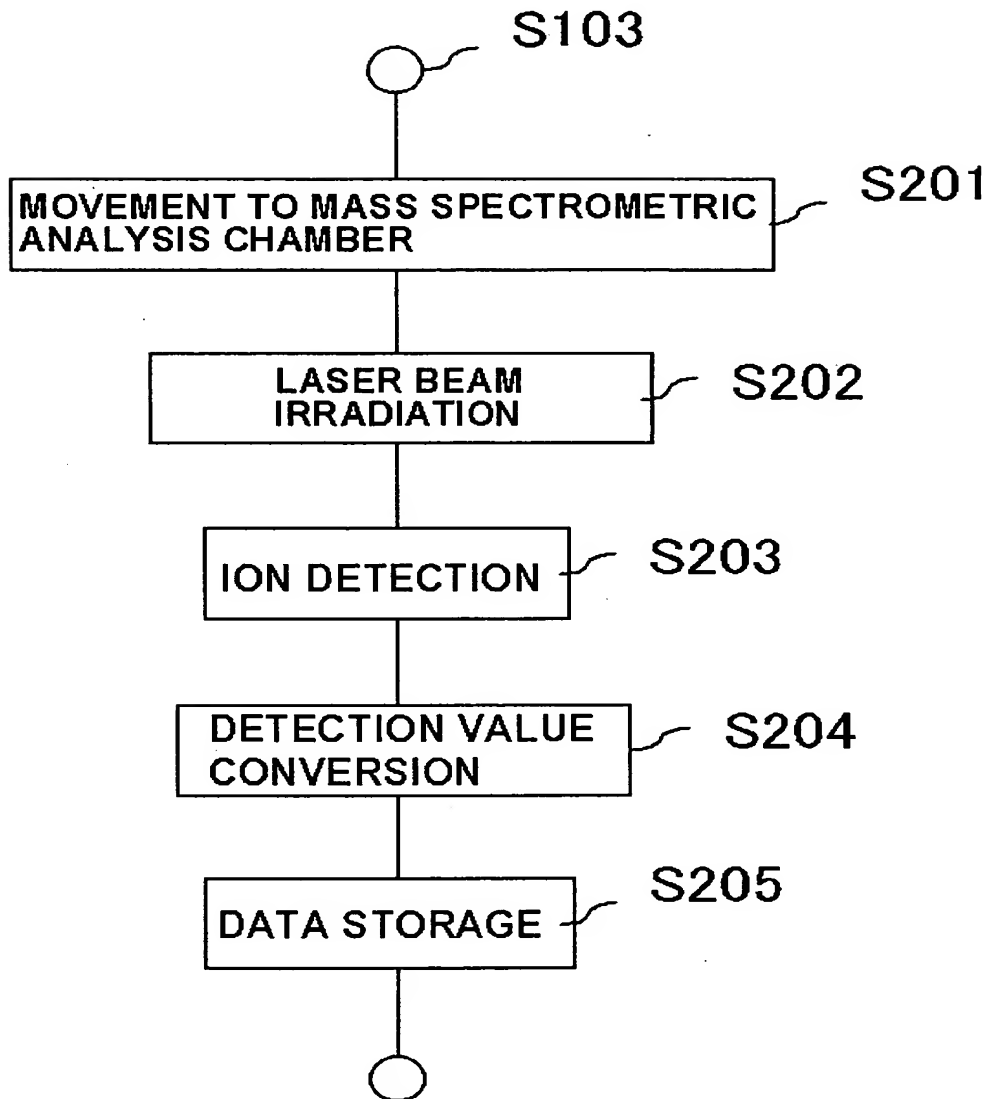
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Fig.79



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Fig.80



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Fig.81

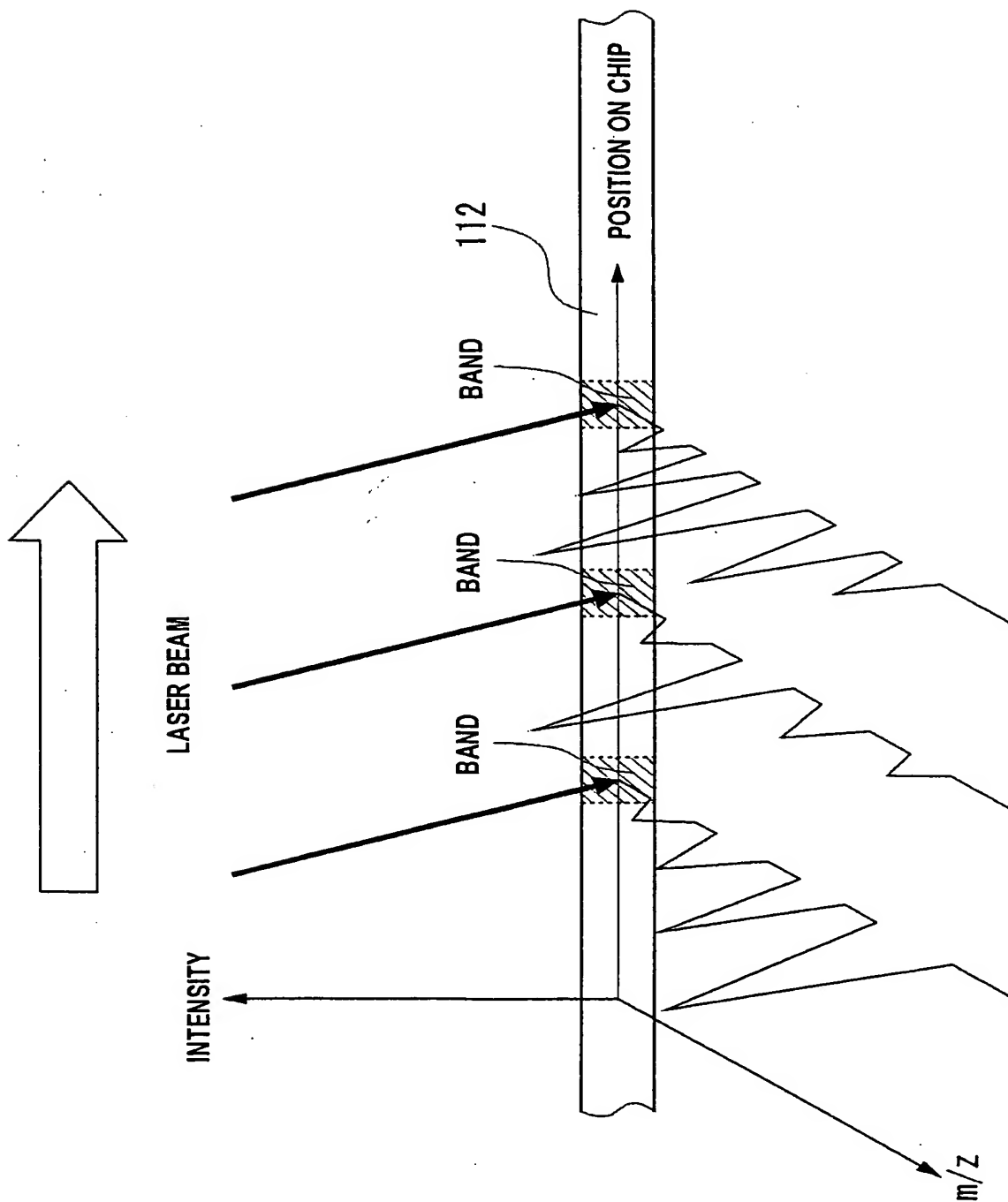


Fig.82

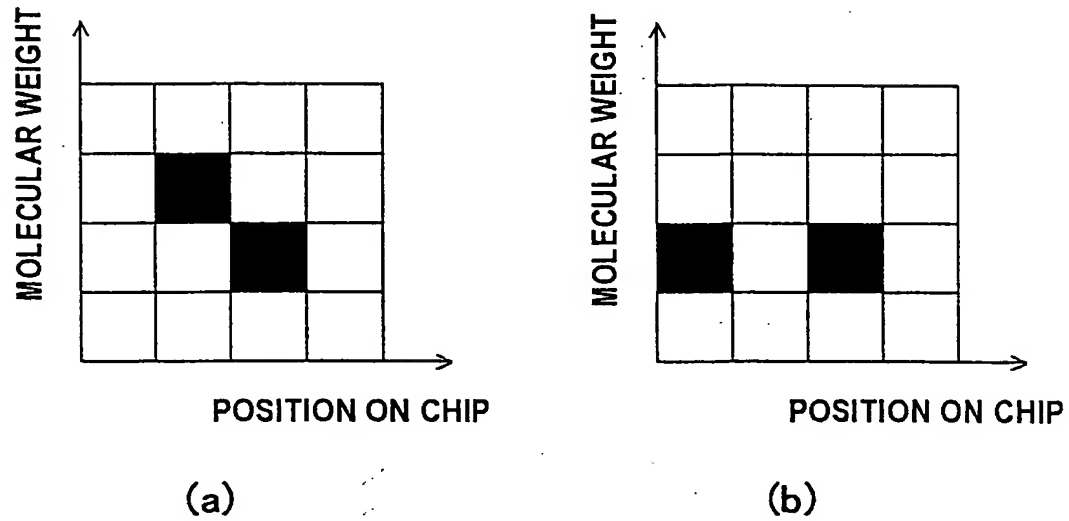
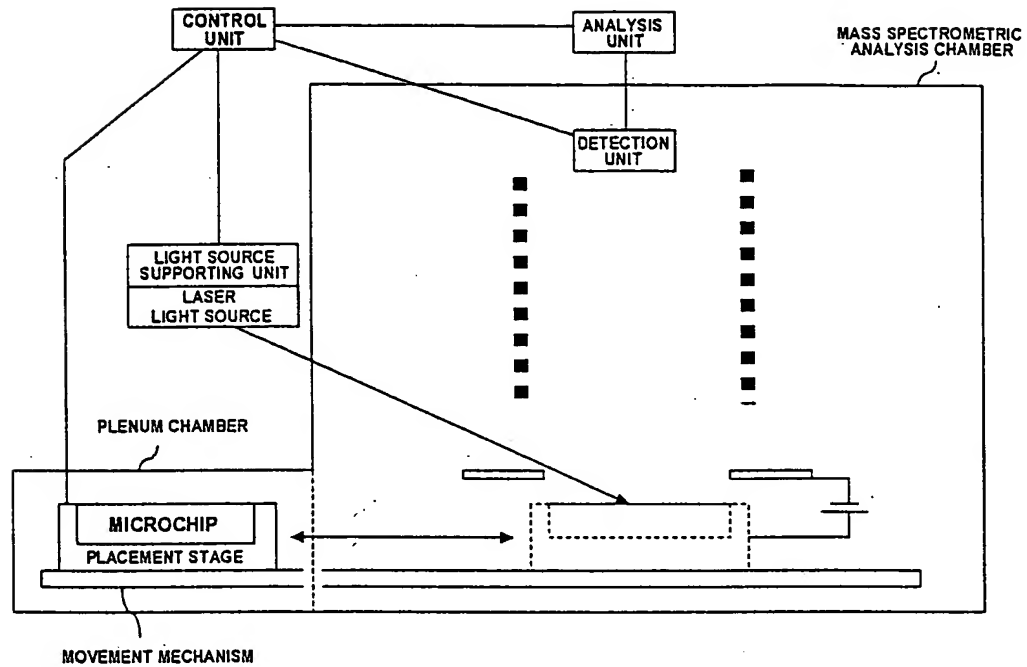


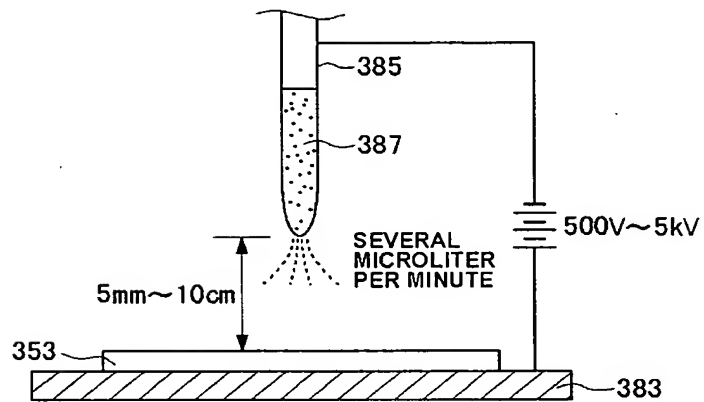
Fig.83



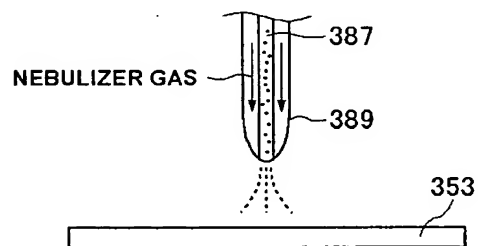
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Fig.84

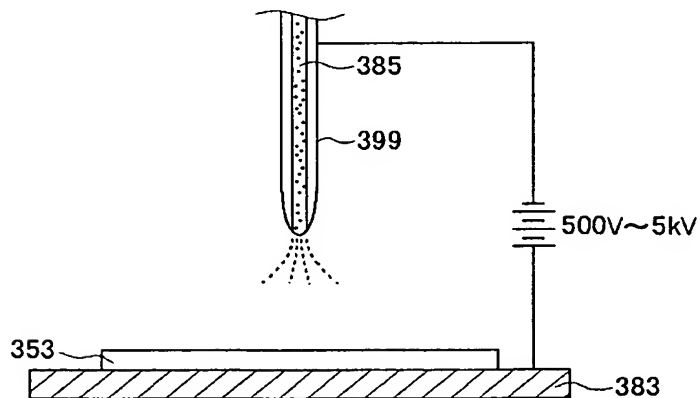
(a)



(b)



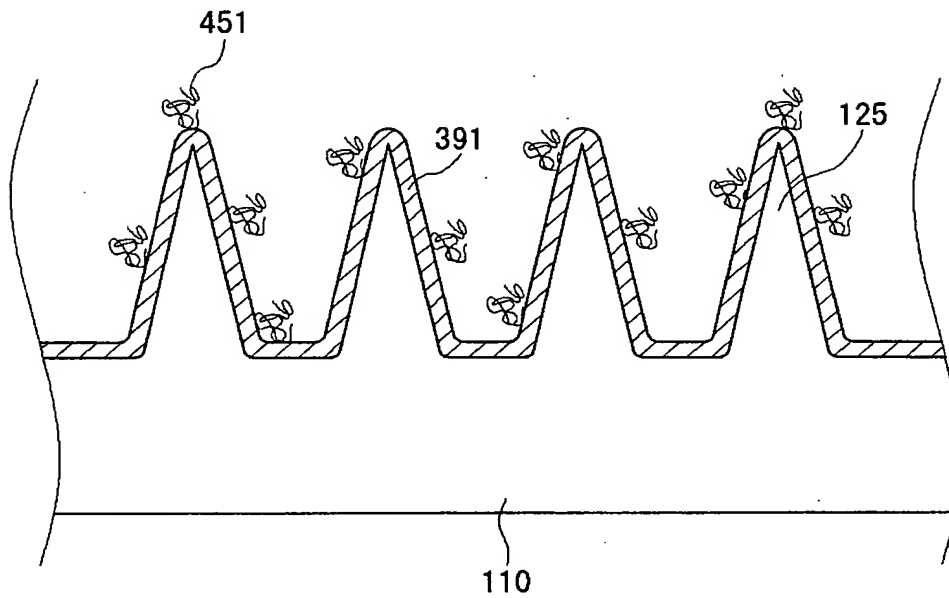
(c)



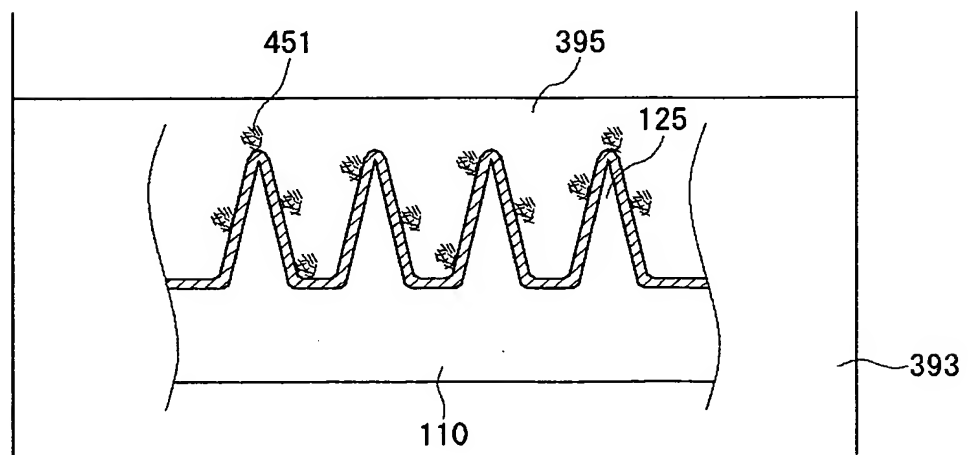
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Fig.85

(a)



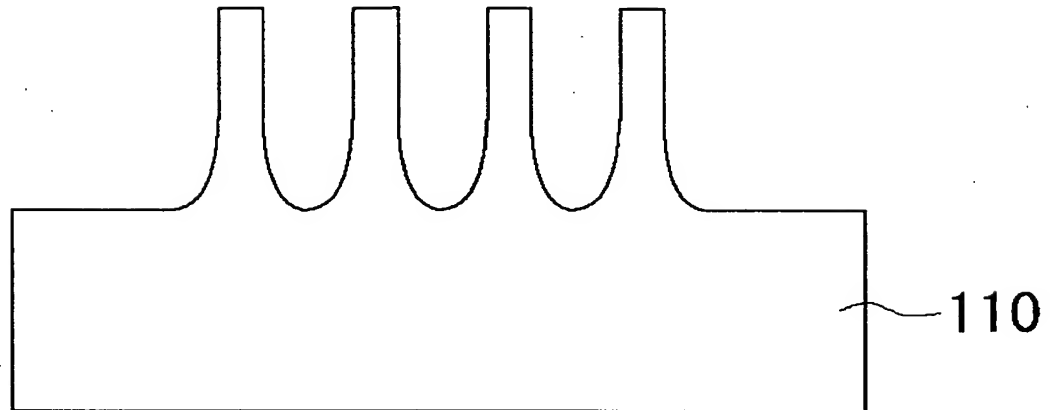
(b)



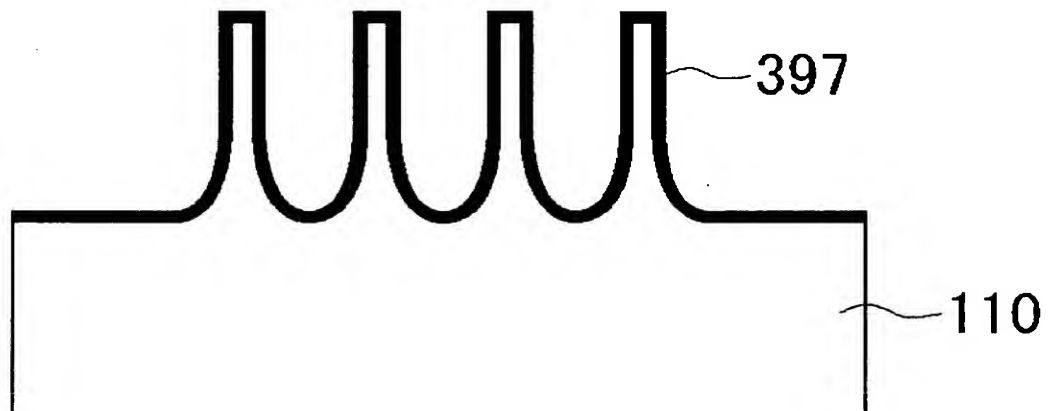
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Fig.86

(a)



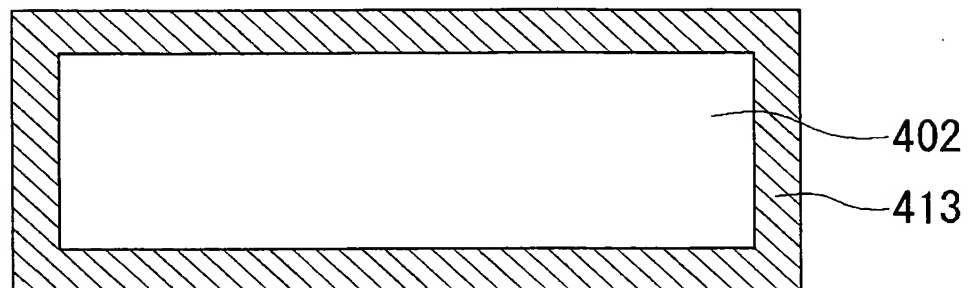
(b)



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Fig.87

(a)



(b)

